

## APPENDIX

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## APPENDIX A



**U**NIVERSITI **P**UTRA **M**ALAYSIA

JABATAN SENIBINA LANDSKAP  
FAKULTI REKA BENTUK DAN SENI BINA

Our Reference: Shdi/Public Survey/English

Date: 30 September 2004

Assalamualaikum dan Selamat Sejahtera,  
Dear participants; Sir/Ma'am/ Mr. / Mrs. / Ms /Miss.

Public Survey: Perception of Users towards Wetlands in the Urban Parks

The purpose of this survey is to gain information that will help government officials and landscape architects develop parks, such as Kelana Jaya Urban Park, in a manner that best meets the needs of the public. In particular, we are interested in public attitudes and perceptions towards wetlands in urban parks, such as Kelana Jaya Urban Park. The information will used to help landscape architect to improve Kelana Jaya Urban Park in the future.

The survey will take approximately 20 minutes of your time. Your identity and answers will remain confidential and only described in ways that cannot be traced back to you. If your have any question regarding this questionnaire please contact me: Suhardi Maulan, Department of Landscape Architecture, Universiti Putra Malaysia at telephone (03) 8948 – 4092/4073 or email at [smaulan@vt.edu](mailto:smaulan@vt.edu)

Thank you for your cooperation and valuable time

Suhardi Maulan  
Researcher,  
Department of Landscape Architecture

Surveyor code \_\_\_\_\_ Type of survey: R, V, LA or P Residents' survey id #: \_\_\_\_\_ Booklet: A or B

Currently, it is a trend among designers to provide wetlands in parks and urban natural open spaces. However, before the wetlands can be restored in the parks and open spaces, there is a need to understand how people perceive wetlands. The results of this survey together with other data will be used to make decision about the future restoration of wetlands in the parks and urban natural open spaces.

A. Please read the following statements and answer the following questions.

**Wetlands are the areas located in between dry lands and water. They are usually covered with shallow waters, mud, grasses, shrubs and small trees. Wetlands can be found at both brackish and salt-water environment. Examples of wetlands in Malaysia are mangrove swamps, peat land, lands at the periphery of lakes and land along rivers. Currently they are about 3.3 million hectares of wetlands (10% of total land areas) in Malaysia**

After reading the statement, how much do you agree with the following management option for wetlands?

1 = disagree, 2 = somewhat disagree, 3 = neither agree nor disagree, 4 = somewhat agree, 5 = agree, 6 = I do not know

Wetlands should be:

1. Used for farming activities	1	2	3	4	5	6
2. Protected and conserved	1	2	3	4	5	6
3. Developed for housing areas	1	2	3	4	5	6
4. Used for educational and research activities	1	2	3	4	5	6
5. Developed for fishery industries	1	2	3	4	5	6
6. Leave alone and use as natural open spaces	1	2	3	4	5	6

B. To what extent do you agree with the following statements about wetlands? Please circle

1 = disagree, 2 = somewhat disagree, 3 = neither agree nor disagree, 4 = somewhat agree, 5 = agree, 6 = I do not know

1. I would like to visit wetlands	1	2	3	4	5	6
2. Wetlands are not safe	1	2	3	4	5	6
3. I enjoy seeing wildlife in the wetlands	1	2	3	4	5	6
4. Wetlands contain dangerous animals	1	2	3	4	5	6
5. Wetlands are nice place to take photographs	1	2	3	4	5	6
6. Wetlands are easy to get lost in	1	2	3	4	5	6
7. Wetlands are places for tranquility and peace	1	2	3	4	5	6
8. I feel bored when I see wetlands	1	2	3	4	5	6
9. Wetlands are not good for your health	1	2	3	4	5	6

C. What do you like most about wetlands?

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D. What do you like least about wetlands?

---

E. This question require you to refer the scenes in the attach booklet. For this question, please refer to Section A. Please circle the number indicating how much you like each landscape scenes.

1 = dislike, 2 = somewhat dislike, 3 = neither dislike nor like, 4 = somewhat like, 5 = like

Scene 1)	1	2	3	4	5	Scene 36)	1	2	3	4	5
Scene 2)	1	2	3	4	5	Scene 37)	1	2	3	4	5
Scene 3)	1	2	3	4	5	Scene 38)	1	2	3	4	5
Scene 4)	1	2	3	4	5	Scene 39)	1	2	3	4	5
Scene 5)	1	2	3	4	5	Scene 40)	1	2	3	4	5
Scene 6)	1	2	3	4	5	Scene 41)	1	2	3	4	5
Scene 7)	1	2	3	4	5	Scene 42)	1	2	3	4	5
Scene 8)	1	2	3	4	5	Scene 43)	1	2	3	4	5
Scene 9)	1	2	3	4	5	Scene 44)	1	2	3	4	5
Scene 10)	1	2	3	4	5	Scene 45)	1	2	3	4	5
Scene 11)	1	2	3	4	5	Scene 46)	1	2	3	4	5
Scene 12)	1	2	3	4	5	Scene 47)	1	2	3	4	5
Scene 13)	1	2	3	4	5	Scene 48)	1	2	3	4	5
Scene 14)	1	2	3	4	5	Scene 49)	1	2	3	4	5
Scene 15)	1	2	3	4	5	Scene 50)	1	2	3	4	5
Scene 16)	1	2	3	4	5	Scene 51)	1	2	3	4	5
Scene 17)	1	2	3	4	5	Scene 52)	1	2	3	4	5
Scene 18)	1	2	3	4	5	Scene 53)	1	2	3	4	5
Scene 19)	1	2	3	4	5	Scene 54)	1	2	3	4	5
Scene 20)	1	2	3	4	5	Scene 55)	1	2	3	4	5
Scene 21)	1	2	3	4	5	Scene 56)	1	2	3	4	5
Scene 22)	1	2	3	4	5	Scene 57)	1	2	3	4	5
Scene 23)	1	2	3	4	5	Scene 58)	1	2	3	4	5
Scene 24)	1	2	3	4	5	Scene 59)	1	2	3	4	5
Scene 25)	1	2	3	4	5	Scene 60)	1	2	3	4	5
Scene 26)	1	2	3	4	5	Scene 61)	1	2	3	4	5
Scene 27)	1	2	3	4	5	Scene 62)	1	2	3	4	5
Scene 28)	1	2	3	4	5	Scene 63)	1	2	3	4	5
Scene 29)	1	2	3	4	5	Scene 64)	1	2	3	4	5
Scene 30)	1	2	3	4	5	Scene 65)	1	2	3	4	5
Scene 31)	1	2	3	4	5	Scene 66)	1	2	3	4	5
Scene 32)	1	2	3	4	5	Scene 67)	1	2	3	4	5
Scene 33)	1	2	3	4	5	Scene 68)	1	2	3	4	5
Scene 34)	1	2	3	4	5	Scene 69)	1	2	3	4	5
Scene 35)	1	2	3	4	5	Scene 70)	1	2	3	4	5

For question F, G, H and I, please refer to Section B in the attach booklet.

F. Scenes Description. Please write down one or two words that best describe each scene

- Scene 1: \_\_\_\_\_
- Scene 2: \_\_\_\_\_
- Scene 3: \_\_\_\_\_
- Scene 4: \_\_\_\_\_
- Scene 5: \_\_\_\_\_
- Scene 6: \_\_\_\_\_
- Scene 7: \_\_\_\_\_

Scene 8: \_\_\_\_\_  
 Scene 9: \_\_\_\_\_  
 Scene 10: \_\_\_\_\_  
 Scene 11: \_\_\_\_\_  
 Scene 12: \_\_\_\_\_  
 Scene 13: \_\_\_\_\_  
 Scene 14: \_\_\_\_\_  
 Scene 15: \_\_\_\_\_

G. Please refer to Section B and indicate the extent to which you believe the landscapes depicted provide habitats for fish and birds

1 = poor, 2 = fair, 3 = good, 4 = excellent, 5 = I do not know
--

Scene 1)	1	2	3	4	5	Scene 9)	1	2	3	4	5
Scene 2)	1	2	3	4	5	Scene 10)	1	2	3	4	5
Scene 3)	1	2	3	4	5	Scene 11)	1	2	3	4	5
Scene 4)	1	2	3	4	5	Scene 12)	1	2	3	4	5
Scene 5)	1	2	3	4	5	Scene 13)	1	2	3	4	5
Scene 6)	1	2	3	4	5	Scene 14)	1	2	3	4	5
Scene 7)	1	2	3	4	5	Scene 15)	1	2	3	4	5
Scene 8)	1	2	3	4	5						

H. Please refer to Section B and indicate the extent to which you believe the landscapes depicted are maintained?

1 = poor, 2 = fair, 3 = good, 4 = excellent, 5 = I do not know
--

Scene 1)	1	2	3	4	5	Scene 9)	1	2	3	4	5
Scene 2)	1	2	3	4	5	Scene 10)	1	2	3	4	5
Scene 3)	1	2	3	4	5	Scene 11)	1	2	3	4	5
Scene 4)	1	2	3	4	5	Scene 12)	1	2	3	4	5
Scene 5)	1	2	3	4	5	Scene 13)	1	2	3	4	5
Scene 6)	1	2	3	4	5	Scene 14)	1	2	3	4	5
Scene 7)	1	2	3	4	5	Scene 15)	1	2	3	4	5
Scene 8)	1	2	3	4	5						

I. Please refer to section B and indicate the extent to which the water in each landscape is healthy for people to be around?

1 = poor, 2 = fair, 3 = good, 4 = excellent, 5 = I do not know
--

Scene 1)	1	2	3	4	5	Scene 9)	1	2	3	4	5
Scene 2)	1	2	3	4	5	Scene 10)	1	2	3	4	5
Scene 3)	1	2	3	4	5	Scene 11)	1	2	3	4	5
Scene 4)	1	2	3	4	5	Scene 12)	1	2	3	4	5
Scene 5)	1	2	3	4	5	Scene 13)	1	2	3	4	5
Scene 6)	1	2	3	4	5	Scene 14)	1	2	3	4	5
Scene 7)	1	2	3	4	5	Scene 15)	1	2	3	4	5
Scene 8)	1	2	3	4	5						

J. How much do you agree with the following statements about the benefits of having wetlands in an urban park? Please circle

1= disagree, 2 = somewhat disagree, 3 = neither agree nor disagree, 4 = somewhat agree, 5 = agree, 6 = I do not know

The presence of the wetlands in the park will;

1. Increase fish & birds populations in the city	1	2	3	4	5	6
2. Minimize flooding	1	2	3	4	5	6
3. Enhance the aesthetic values of the park	1	2	3	4	5	6
4. Increase the ground water supply	1	2	3	4	5	6
5. Upgrade the quality of the water	1	2	3	4	5	6
6. Provide educational opportunities in the park	1	2	3	4	5	6
7. Improve local air quality	1	2	3	4	5	6

K. How important is it for you to be able to participate in the following park activities? Please circle

1 = not important, 2 = somewhat unimportant, 3 = neither unimportant nor important, 4 = somewhat important, 5 = very important, 6 = I do not know

1. Have a picnic	1	2	3	4	5	6
2. Jogging	1	2	3	4	5	6
3. Observe plants	1	2	3	4	5	6
4. Be alone (solitude)	1	2	3	4	5	6
5. Play ball	1	2	3	4	5	6
6. Spend time with friends in the park	1	2	3	4	5	6
7. Observing lake scenery	1	2	3	4	5	6
8. Roller skating	1	2	3	4	5	6
9. View natural scenery	1	2	3	4	5	6
10. Observe wildlife	1	2	3	4	5	6
11. Be together with family in the park	1	2	3	4	5	6
12. Sitting and relaxing	1	2	3	4	5	6
13. Walking	1	2	3	4	5	6
14. Bring kids to the playground	1	2	3	4	5	6
15. Study about nature	1	2	3	4	5	6

L. Please list any additional activities you would like to see provided in the park.

---

M. How often do you use the Kelana Jaya Municipal Park ? Please make  $\surd$  for your answer  
 Never \_\_\_\_, once every 6 months \_\_\_\_, once every 3 months \_\_\_\_, once a month \_\_\_\_, several time a month \_\_\_\_

N. Have you ever participated in volunteer activities in the park? Please  $\surd$ : Yes \_\_\_\_, No \_\_\_\_

O. If you answer yes for question N, for how long have you been volunteering? \_\_\_\_\_ month(s)

P. How often do you volunteer? Please  $\surd$ : Never \_\_\_\_, once every 6 months \_\_\_\_, once every 3 months \_\_\_\_, once a month \_\_\_\_, several time a month \_\_\_\_

Q. Have you ever participated in outdoor recreational activities such as fishing, canoeing, swimming, hiking, camping etc? Please  $\surd$ : Yes \_\_\_\_, No \_\_\_\_

- R. If so, how often do you do participate in these type of activities? Please  $\surd$ : Never \_\_\_\_, once every 6 months \_\_\_\_, once every 3 months \_\_\_\_, once a month \_\_\_\_, several time a month \_\_\_\_

Please check  $\surd$  the response that best describe you (Information will be used for categorization only)

- S. How far do you lives from Kelana Jaya Municipal Park?  
Less than a mile \_\_\_\_, 1 – 2 miles \_\_\_\_, 3 – 4miles \_\_\_\_, More than 5 miles \_\_\_\_
- T. What is your highest education level? Secondary school \_\_\_\_, Certificate, Diploma or STPM \_\_\_\_, Bachelor and above \_\_\_\_, Other \_\_\_\_
- U. What is your income per month?  
Less than RM1000 \_\_\_\_, RM 1000– RM3000 \_\_\_\_, RM3000 – RM5000 \_\_\_\_, RM5000 – RM 7000 \_\_\_\_, More than RM 7000 \_\_\_\_
- V. How old are you (range)? Below 20 years \_\_\_\_, 21 – 30 years \_\_\_\_, 31 – 40 years \_\_\_\_, 41 – 50 years \_\_\_\_, 51 – 60 years \_\_\_\_, More than 60 years \_\_\_\_
- W. What is your gender?; Male \_\_\_\_, Female \_\_\_\_
- X. What is your ethnicity heritage?; Malay \_\_\_\_, Chinese \_\_\_\_, Indian \_\_\_\_, Other \_\_\_\_
- Y. Please read the following statement and answer the following questions

**Wetlands are precious natural resources. Studies by the Forest Research Institute of Malaysia and local universities have shown that wetlands are important for people, as well as the environment. Wetlands help decrease flooding problems by slowing down the flowing of water and allowing the water to soak into the ground. The process also helps to clean and purify water. Wetlands also can absorb carbon from the atmosphere and store the carbon in the soils. As a result, the air will be cleaner and healthier. Wetlands also are important habitats for wildlife such as birds and fishes. Wetlands are unique landscapes and are now starting to be introduced into parks and open spaces. The introduction of wetlands in the park not only is going to increases the aesthetic value of the park, but also increases educational opportunities for visitors**

After reading the above statement, how much do you agree with the following benefits and values of wetlands?

1 = disagree, 2 = somewhat disagree, 3 = neither agree nor disagree, 4 = somewhat agree, 5 = agree, 6= I do not know

Wetlands are valuable to:						
1. Minimize flooding problems	1	2	3	4	5	6
2. Increase fresh water quality	1	2	3	4	5	6
3. Clean air and increase its quality	1	2	3	4	5	6
4. Increase wildlife and fish population	1	2	3	4	5	6
5. Increase the aesthetic values of open spaces	1	2	3	4	5	6
6. Increase environmental education opportunity	1	2	3	4	5	6
7. In general, what is your opinion about whether the government should include wetlands in the urban park and open space when possible?	1	2	3	4	5	6

Thank you very much for time and your cooperation  
Suhardi Maulan

## APPENDIX B



**U**NIVERSITI **P**UTRA **M**ALAYSIA

JABATAN SENIBINA LANDSKAP  
FAKULTI REKA BENTUK DAN SENI BINA

Rujukan kami: Shdi/Public Survey/Malay

Tarikh: 30 September 2004

Assalamualaikum dan Selamat Sejahtera,  
Tuan/Encik/Puan/Cik,

### Persepsi Pengguna terhadap Penggunaan Kawasan Lembab di Taman Bandaran

Salam Sejahtera,

Tujuan kaji selidik ini adalah untuk mendapatkan maklum balas daripada orang ramai bagi membantu pihak kerajaan tempatan dan arkitek landskap membangunkan taman dan kawasan lapang seperti Taman Perbandaran Kelana Jaya bersesuaian dengan kehendak orang ramai. Pihak kami ingin mendapatkan maklum balas mengenai persepsi orang ramai terhadap kawasan paya (wetlands) di dalam taman. Maklum balas yang diterima akan digunakan oleh arkitek landskap bagi memepertingkatkan kualiti rekabentuk Taman Perbandaran Kelana Jaya di masa hadapan supaya menjadi lebih menarik dan memberikan kepuasan kepada pengguna.

Kaji selidik ini akan mengambil masa selama lebih kurang 20 minit. Maklumat tentang diri anda dan jawapan anda akan dirahsiakan. Laporan kajian akan dibentangkan dengan cara dimana pengenalan diri anda akan dirahsiakan Untuk makluman dan sebarang soalan mengenai kaji selidik ini, sila hubungi penyelidik kajian ilmiah ini: Encik Suhardi Maulan di Jabatan Senibina Landskap, Universiti Putra Malaysia di talian telefon (03) 8946- 4092/4073 atau email [smaulan@vt.edu](mailto:smaulan@vt.edu)

Segala kerjasama yang anda berikan amatlah dihargai dan diucapkan ribuan terima kasih

Suhardi Maulan  
Penyelidik,  
Jabatan Senibina Landskap



Pada masa ini, telah menjadi satu tren dimana arkitek landskap berusaha untuk mewujudkan kawasan paya (wetland) di taman dan kawasan lapang. Walau bagaimanapun, sebelum kawasan ini boleh dipuliharkan di taman dan kawasan lapang, adalah penting bagi arkitek landskap untuk mengetahui persepsi orang ramai terhadapnya. Hasil kajian ini beserta dengan data lain akan digunakan untuk memuliharkan kawasan paya di taman dan bandaran pada masa hadapan.

A. Sila baca kenyataan di bawah ini dan sila jawab soalan di bawah.

**Wetland atau tanah lembab terletak diantara kawasan tinggi/kering dan air. Pada kebiasaannya wetlands dilitupi oleh air yang cetek, lumpur, rumpai air, pepohon renek dan pepohon kecil. Wetland wujud dikedua-dua kawasan air tawar dan air masin (laut). Contoh-contoh wetland di Malaysia adalah paya bakau, paya gambut, tanah disekitar tasik dan kolam dan tanah di spinggiran sungai. Pada masa ini, Malaysia, dianggarkan, mempunyai hampir 3.3 juta hektar wetland atau tanah lembab (10% dari keseluruhan tanah di Malaysia)**

Selepas membaca kenyataan diatas, sejauh mana anda bersetuju dengan cara pengurusan kawasan tanah lembab berikut? Sila bulatkan

1 = tidak setuju, 2 = kurang setuju, 3 = berkecuali, 4 = sederhana setuju, 5 = setuju, 6 = tidak tahu

Kawasan tanah lembab seharusnya di:

1. Gunakan untuk aktiviti pertanian	1	2	3	4	5	6
2. Lindungi dan pelihara	1	2	3	4	5	6
3. Dibangunkan sebagai kawasan perumahan	1	2	3	4	5	6
4. Digunakan untuk tujuan pendidikan dan penyelidikan	1	2	3	4	5	6
5. Dibangunkan untuk industri perikanan	1	2	3	4	5	6
6. Biarkan sahaja sebagai kawasan terbuka semulajadi	1	2	3	4	5	6

B. Sejahter mana anda bersetuju dengan kenyataan dibawah mengenai kawasan tanah lembab? Sila bulatkan

1 = tidak setuju, 2 = kurang setuju, 3 = berkecuali, 4 = agak setuju, 5 = setuju, 6 = tidak tahu

1. Saya suka melawat kawasan tanah lembab	1	2	3	4	5	6
2. Kawasan tanah lembab adalah merbahaya	1	2	3	4	5	6
3. Saya suka melihat hidupan liar di kawasan tanah lembab	1	2	3	4	5	6
4. Kawasan tanah lembab mempunyai hidupan liar yang bahaya	1	2	3	4	5	6
5. Kawasan tanah lembab adalah tempat yang menarik untuk mengambil foto	1	2	3	4	5	6
6. Kita mudah sesat di kawasan kawasan tanah lembab	1	2	3	4	5	6
7. Kawasan tanah lembab adalah tempat yang sunyi dan nyaman	1	2	3	4	5	6
8. Saya merasa bosan melihat kawasan tanah lembab	1	2	3	4	5	6
9. Kawasan tanah lembab tidak bagus untuk kesihatan	1	2	3	4	5	6

C. Sila nyatakan apakah yang anda paling suka mengenai kawasan tanah lembab?

---

D. Sila nyatakan apakah yang anda paling tidak suka mengenai kawasan tanah lembab?

---

E. Soalan ini memerlukan anda merujuk kepada gambar pemandangan didalam buku yang disediakan. Untuk soalan ini, sila rujuk Bahagian A. Sila bulatkan nombor menyatakan sejauh mana anda suka setiap pemandangan landskap yang ditunjukkan

1 = tidak suka, 2 = kurang suka, 3 = berkecuali, 4 = agak suka, 5 = suka											
Pemandangan 1)	1	2	3	4	5	Pemandangan 36)	1	2	3	4	5
Pemandangan 2)	1	2	3	4	5	Pemandangan 37)	1	2	3	4	5
Pemandangan 3)	1	2	3	4	5	Pemandangan 38)	1	2	3	4	5
Pemandangan 4)	1	2	3	4	5	Pemandangan 39)	1	2	3	4	5
Pemandangan 5)	1	2	3	4	5	Pemandangan 40)	1	2	3	4	5
Pemandangan 6)	1	2	3	4	5	Pemandangan 41)	1	2	3	4	5
Pemandangan 7)	1	2	3	4	5	Pemandangan 42)	1	2	3	4	5
Pemandangan 8)	1	2	3	4	5	Pemandangan 43)	1	2	3	4	5
Pemandangan 9)	1	2	3	4	5	Pemandangan 44)	1	2	3	4	5
Pemandangan 10)	1	2	3	4	5	Pemandangan 45)	1	2	3	4	5
Pemandangan 11)	1	2	3	4	5	Pemandangan 46)	1	2	3	4	5
Pemandangan 12)	1	2	3	4	5	Pemandangan 47)	1	2	3	4	5
Pemandangan 13)	1	2	3	4	5	Pemandangan 48)	1	2	3	4	5
Pemandangan 14)	1	2	3	4	5	Pemandangan 49)	1	2	3	4	5
Pemandangan 15)	1	2	3	4	5	Pemandangan 50)	1	2	3	4	5
Pemandangan 16)	1	2	3	4	5	Pemandangan 51)	1	2	3	4	5
Pemandangan 17)	1	2	3	4	5	Pemandangan 52)	1	2	3	4	5
Pemandangan 18)	1	2	3	4	5	Pemandangan 53)	1	2	3	4	5
Pemandangan 19)	1	2	3	4	5	Pemandangan 54)	1	2	3	4	5
Pemandangan 20)	1	2	3	4	5	Pemandangan 55)	1	2	3	4	5
Pemandangan 21)	1	2	3	4	5	Pemandangan 56)	1	2	3	4	5
Pemandangan 22)	1	2	3	4	5	Pemandangan 57)	1	2	3	4	5
Pemandangan 23)	1	2	3	4	5	Pemandangan 58)	1	2	3	4	5
Pemandangan 24)	1	2	3	4	5	Pemandangan 59)	1	2	3	4	5
Pemandangan 25)	1	2	3	4	5	Pemandangan 60)	1	2	3	4	5
Pemandangan 26)	1	2	3	4	5	Pemandangan 61)	1	2	3	4	5
Pemandangan 27)	1	2	3	4	5	Pemandangan 62)	1	2	3	4	5
Pemandangan 28)	1	2	3	4	5	Pemandangan 63)	1	2	3	4	5
Pemandangan 29)	1	2	3	4	5	Pemandangan 64)	1	2	3	4	5
Pemandangan 30)	1	2	3	4	5	Pemandangan 65)	1	2	3	4	5
Pemandangan 31)	1	2	3	4	5	Pemandangan 66)	1	2	3	4	5
Pemandangan 32)	1	2	3	4	5	Pemandangan 67)	1	2	3	4	5
Pemandangan 33)	1	2	3	4	5	Pemandangan 68)	1	2	3	4	5
Pemandangan 34)	1	2	3	4	5	Pemandangan 69)	1	2	3	4	5
Pemandangan 35)	1	2	3	4	5	Pemandangan 70)	1	2	3	4	5

Untuk soalan F, G, H dan I sila rujuk kepada Bahagian B didalam buku yang disediakan

F. Penjelasan pemandangan. Sila gunakan satu atau dua patah perkataan yang paling tepat untuk menggambarkan pemandangan berikut. Sila bulatkan

Pemandangan 1: \_\_\_\_\_

Pemandangan 2: \_\_\_\_\_

Pemandangan 3: \_\_\_\_\_

Pemandangan 4: \_\_\_\_\_

Pemandangan 5: \_\_\_\_\_

- Pemandangan 6: \_\_\_\_\_
- Pemandangan 7: \_\_\_\_\_
- Pemandangan 8: \_\_\_\_\_
- Pemandangan 9: \_\_\_\_\_
- Pemandangan 10: \_\_\_\_\_
- Pemandangan 11: \_\_\_\_\_
- Pemandangan 12: \_\_\_\_\_
- Pemandangan 13: \_\_\_\_\_
- Pemandangan 14: \_\_\_\_\_
- Pemandangan 15: \_\_\_\_\_

G. Sila rujuk Bahagian B dan nyatakan sejauh mana anda percaya landskap yang ditunjukkan baik untuk habitat ikan dan hidupan liar. Sila bulatkan

1= tidak baik, 2 = agak baik, 3 =baik, 4 = amat baik, 5 = tidak tahu

Pemandangan 1)	1	2	3	4	5	Pemandangan 9)	1	2	3	4	5
Pemandangan 2)	1	2	3	4	5	Pemandangan 10)	1	2	3	4	5
Pemandangan 3)	1	2	3	4	5	Pemandangan 11)	1	2	3	4	5
Pemandangan 4)	1	2	3	4	5	Pemandangan 12)	1	2	3	4	5
Pemandangan 5)	1	2	3	4	5	Pemandangan 13)	1	2	3	4	5
Pemandangan 6)	1	2	3	4	5	Pemandangan 14)	1	2	3	4	5
Pemandangan 7)	1	2	3	4	5	Pemandangan 15)	1	2	3	4	5
Pemandangan 8)	1	2	3	4	5						

H. Sila rujuk Bahagian B dan nyatakan tahap penyelenggaraan landskap yang dipaparkan. Sila bulatkan

1= tidak baik, 2 = sederhana, 3 =baik, 4 = amat baik, 5 = tidak tahu

Pemandangan 1)	1	2	3	4	5	Pemandangan 9)	1	2	3	4	5
Pemandangan 2)	1	2	3	4	5	Pemandangan 10)	1	2	3	4	5
Pemandangan 3)	1	2	3	4	5	Pemandangan 11)	1	2	3	4	5
Pemandangan 4)	1	2	3	4	5	Pemandangan 12)	1	2	3	4	5
Pemandangan 5)	1	2	3	4	5	Pemandangan 13)	1	2	3	4	5
Pemandangan 6)	1	2	3	4	5	Pemandangan 14)	1	2	3	4	5
Pemandangan 7)	1	2	3	4	5	Pemandangan 15)	1	2	3	4	5
Pemandangan 8)	1	2	3	4	5						

I. Sila rujuk kepada Bahagian B dan nyatakan sejauh mana keadaan air dalam setiap landskap yang ditunjukkan baik untuk orang ramai berada di situ? Sila bulatkan

1= tidak baik, 2 = agak baik, 3 =baik, 4 = amat baik, 5 = tidak tahu

Pemandangan 1)	1	2	3	4	5	Pemandangan 9)	1	2	3	4	5
Pemandangan 2)	1	2	3	4	5	Pemandangan 10)	1	2	3	4	5
Pemandangan 3)	1	2	3	4	5	Pemandangan 11)	1	2	3	4	5
Pemandangan 4)	1	2	3	4	5	Pemandangan 12)	1	2	3	4	5
Pemandangan 5)	1	2	3	4	5	Pemandangan 13)	1	2	3	4	5
Pemandangan 6)	1	2	3	4	5	Pemandangan 14)	1	2	3	4	5
Pemandangan 7)	1	2	3	4	5	Pemandangan 15)	1	2	3	4	5
Pemandangan 8)	1	2	3	4	5						

J. Sejauh mana anda bersetuju dengan kenyataan dibawah mengenai faedah yang boleh didapati dengan adanya kawasan tanah lembab ditaman bandar. Sila bulatkan

1 = tidak setuju, 2 = kurang setuju, 3 = berkecuali, 4 = agak setuju, 5 setuju, 6 = tidak tahu
--

Kawasan tanah lembab di dalam taman bandar akan:

1. Meningkatkan jumlah ikan dan hidupan liar di dalam bandar	1	2	3	4	5	6
2. Mengurangkan masalah banjir	1	2	3	4	5	6
3. Meningkatkan nilai keindahan taman	1	2	3	4	5	6
4. Meningkatkan bekalan air di bawah tanah	1	2	3	4	5	6
5. Meningkatkan kualiti air	1	2	3	4	5	6
6. Mewujudkan peluang belajar di dalam taman	1	2	3	4	5	6
7. Membaiki kualiti udara setempat	1	2	3	4	5	6

K. Sepenting manakah untuk anda melakukan aktiviti-aktiviti ini di taman?

1 = tidak penting, 2 = kurang penting, 3 = neutral, 4 = sederhana penting, 5 = penting, 6 = tidak tahu
--

1. Berkelah	1	2	3	4	5	6
2. Berjogging	1	2	3	4	5	6
3. Melihat tumbuh-tumbuhan	1	2	3	4	5	6
4. Bersunyan	1	2	3	4	5	6
5. Bermain bola	1	2	3	4	5	6
6. Bersama teman dan rakan	1	2	3	4	5	6
7. Melihat permandangan tasik	1	2	3	4	5	6
8. Bermain kasut roda	1	2	3	4	5	6
9. Melihat pemandangan alam	1	2	3	4	5	6
10. Melihat hidupan liar	1	2	3	4	5	6
11. Bersama keluarga dalam taman	1	2	3	4	5	6
12. Duduk dan berehat	1	2	3	4	5	6
13. Berjalan-jalan	1	2	3	4	5	6
14. Membawa anak-anak ke taman permainan	1	2	3	4	5	6
15. Belajar mengenai alam semula jadi	1	2	3	4	5	6

L. Sila nyatakan aktiviti tambahan yang anda fikirkan perlu disediakan di dalam taman?

M. Sekerap manakah anda menggunakan Taman Perbandaran Kelana Jaya di dalam setahun? Sila  $\surd$  untuk jawapan. Tidak pernah \_\_\_\_, sekali setiap 6 bulan \_\_\_\_, Sekali setiap 3 bulan \_\_\_\_, Sebulan sekali \_\_\_\_, Beberapa kali sebulan \_\_\_\_

N. Pernahkah anda menyertai aktiviti sukarela dalam taman ini? Ya \_\_\_\_, Tidak \_\_\_\_

O. Jika anda menjawab ya dalam soalan N, sudah berapa lamakah anda terlibat \_\_\_\_\_ bulan

P. Sekerap manakah anda terlibat? Sila  $\surd$  untuk jawapan. Tidak pernah \_\_\_\_, sekali setiap 6 bulan \_\_\_\_, Sekali setiap 3 bulan \_\_\_\_, Sebulan sekali \_\_\_\_, Beberapa kali sebulan \_\_\_\_

Q. Pernahkah anda mengikuti aktiviti rekreasi luar seperti memancing, berkano, berenang dan berkhemah? Ya \_\_\_\_, Tidak \_\_\_\_

- R. Jika ya, berapa kerapkah anda mengikuti aktiviti sedemikian? Sila  $\surd$  untuk jawapan.  
Tiada \_\_\_\_, sekali setiap 6 bulan \_\_\_\_, Sekali setiap 3 bulan \_\_\_\_, Sebulan sekali \_\_\_\_,  
Beberapa kali sebulan \_\_\_\_

Sila nyatakan keterangan yang paling tepat mengenai anda  
(data akan digunakan untuk tujuan pengkelasan sahaja) Sila tanda  $\surd$

- S. Berapa jauh anda tinggal dari Taman Tasik Kelana Jaya? Kurang dari 1 kilometer \_\_\_\_,  
1 – 2 kilometer \_\_\_\_, 3 – 4 kilometer \_\_\_\_, Lebih dari 5 kilometer \_\_\_\_
- T. Apakah tahap pengajian tertinggi anda? Sekolah menengah \_\_\_\_, Sijil, Diploma atau STPM \_\_\_\_, Sarjana  
Muda dan keatas \_\_\_\_, Lain-lain \_\_\_\_
- U. Berapakah pendapatan anda sebulan?  
Kurang dari RM1000 \_\_\_\_, RM 1000 – RM3000 \_\_\_\_, RM3000 – RM5000 \_\_\_\_,  
RM5000 – RM7000, Melebihi RM7000 \_\_\_\_
- V. Berapakan usia anda (anggaran)? Kurang dari 20 tahun \_\_\_\_, 21 – 30 tahun \_\_\_\_,  
31 – 40 tahun \_\_\_\_, 41 – 50 tahun \_\_\_\_, 51 – 60 tahun \_\_\_\_, 60 tahun ke atas \_\_\_\_
- W. Jantina? Lelaki \_\_\_\_, Perempuan \_\_\_\_
- X. Bangsa? Melayu \_\_\_\_, Cina \_\_\_\_, India \_\_\_\_, Lain-lain \_\_\_\_
- Y. Sila baca kenyataan dibawah dan jawab soalan berikutnya

**Kawasan tanah lembab atau wetland adalah sumber alam semulajadi yang amat berharga. Kajian dari Institut Penyelidikan Hutan Malaysia (FRIM) dan universiti tempatan menunjukkan kawasan tanah lembab adalah penting bagi manusia dan juga alam sekitar. Kawasan tanah lembab mampu mengurangkan masalah banjir dengan memperlambatkan larian air dan mempercepatkan proses air untuk meresap kedalam tanah. Proses ini juga membolehkan air dibersihkan. Kawasan tanah lembab juga mempunyai kemampuan untuk meresap karbon diudara dan menyimpannya didalam tanah. Oleh itu, udara akan menjadi lebih bersih dan menyihatkan. Kawasan tanah lembab juga amat penting sebagai habitat untuk hidupan liar seperti burung dan ikan. Kawasan tanah lembab adalah landskap yang unik and mula di perkenalkan di taman dan kawasan lapang. Pemuliharaan dan penggunaan kawasan tanah lembab di kawasan lapang tidak hanya dapat meningkatkan nilai keindahan taman tetapi juga meningkatkan peluang pendidikan alam sekitar untuk pengunjung taman**

Setelah membaca kenyataan diatas, sejauh manakah anda bersetuju dengan faedah dan nilai kawasan tanah lembab di bawah ini?

1 = tidak setuju, 2 = kurang setuju, 3 = berkecuali, 4 = agak setuju, 5 setuju, 6 = tidak tahu

Kawasan tanah lembab bernilai untuk:

- |  |   |   |   |   |   |   |
|--|---|---|---|---|---|---|
| 1. Mengurangkan masalah banjir   | 1 | 2 | 3 | 4 | 5 | 6 |
| 2. Meningkatkan kualiti air  | 1 | 2 | 3 | 4 | 5 | 6 |
| 3. Membersihkan dan meningkat mutu udara   | 1 | 2 | 3 | 4 | 5 | 6 |
| 4. Meningkatkan jumlah ikan dan hidupan liar   | 1 | 2 | 3 | 4 | 5 | 6 |
| 5. Meningkatkan keindahan kawasan lapang   | 1 | 2 | 3 | 4 | 5 | 6 |
| 6. Meningkatkan peluang pendidikan alam sekitar  | 1 | 2 | 3 | 4 | 5 | 6 |
| 7. Secara amnya, adakah anda bersetuju samada kerajaan patut memperkenalkan kawasan tanah lembab di mana-mana kawasan taman dan kawasan lapang jika sesuai | 1 | 2 | 3 | 4 | 5 | 6 |

Sekian, terima kasih diatas kerjasama anda, Suhardi Maulan

## APPENDIX C



**U**NIVERSITI **P**UTRA **M**ALAYSIA

JABATAN SENIBINA LANDSKAP  
FAKULTI REKA BENTUK DAN SENI BINA

Our Reference: Shdi/Expert Survey/2004

Date: 30 September 2004

Assalamualaikum dan Selamat Sejahtera,  
Sir/Ma'am/ Mr. / Mrs. / Ms /Miss,

### Perception of Landscape Architects towards Wetlands in the Urban Parks

Dear Participants,

The purpose of this survey is to gain information that will help government officials and landscape architects develop parks, such as Kelana Jaya Urban Park, in a manner that best meets the needs of the public. In particular, we are interested in landscape architecture attitudes and perceptions towards wetlands in urban natural open spaces. The information will be used to develop and propose a policy related to wetlands restoration to the planning and design of urban natural open spaces in the future.

The survey will take 20 minutes of your time. Participation in this survey is voluntarily. Your identity and answers will remain confidential and only described in ways that cannot be traced back to you. If you have any question regarding to this questionnaires please contact: Suhardi Maulan, Department of Landscape Architecture, Universiti Putra Malaysia at telephone (03) 8948 – 4092/4073 or email at [smaulan@vt.edu](mailto:smaulan@vt.edu)

Thank you for your cooperation and valuable time

Suhardi Maulan  
Researcher,  
Department of Landscape Architecture

Currently, it is a trend among designers to provide wetlands in parks and urban natural open spaces. However, before the wetlands can be restored in the parks and open spaces, there is a need to understand how people perceive the wetlands. The results of this survey together with other data will be used to make decision about the future restoration of wetlands in the parks and urban natural open spaces.

A. Please read the following statements and answer the following questions.

**Wetlands are the areas located in between dry lands and water. They are usually covered with shallow waters, mud, grasses, shrubs and small trees. Wetlands can be found at both brackish and salt-water environment. Examples of wetlands in Malaysia are mangrove swamps, peat land, lands at the periphery of lakes and land along rivers. Currently they are about 3.3 million hectares of wetlands (10% of total land areas) in Malaysia**

After reading the statement, how much do you agree with the following management option for wetlands?

1 = disagree, 2 = somewhat disagree, 3 = neither agree nor disagree, 4 = somewhat agree, 5 = agree, 6 = I do not know

Wetlands should be:

1. Used for farming activities	1	2	3	4	5	6
2. Protected and conserved	1	2	3	4	5	6
3. Developed for housing areas	1	2	3	4	5	6
4. Used for educational and research activities	1	2	3	4	5	6
5. Developed for fishery industries	1	2	3	4	5	6
6. Leave alone and use as natural open spaces	1	2	3	4	5	6

B. To what extent do you agree with the following statements about wetlands? Please circle

1 = disagree, 2 = somewhat disagree, 3 = neither agree nor disagree, 4 = somewhat agree, 5 = agree, 6 = I do not know

7. I would like to visit wetlands	1	2	3	4	5	6
8. Wetlands are not safe	1	2	3	4	5	6
9. I enjoy seeing wildlife in the wetlands	1	2	3	4	5	6
10. Wetlands contain dangerous animals	1	2	3	4	5	6
11. Wetlands are nice place to take photographs	1	2	3	4	5	6
12. Wetlands are easy to get lost in	1	2	3	4	5	6
13. Wetlands are places for tranquility and peace	1	2	3	4	5	6
14. I feel bored when I see wetlands	1	2	3	4	5	6
15. Wetlands are not good for your health	1	2	3	4	5	6

C. What do you like most about wetlands?

---

D. What do you like least about wetlands?

---

E. This question require you to refer the scenes in the attach booklet. For this question, please refer to Section A. Please circle the number indicating how much you like each landscape scenes.

1 = dislike, 2 = somewhat dislike, 3 = neither dislike nor like, 4 = somewhat like, 5 = like

Scene 1)	1	2	3	4	5	Scene 36)	1	2	3	4	5
Scene 2)	1	2	3	4	5	Scene 37)	1	2	3	4	5
Scene 3)	1	2	3	4	5	Scene 38)	1	2	3	4	5
Scene 4)	1	2	3	4	5	Scene 39)	1	2	3	4	5
Scene 5)	1	2	3	4	5	Scene 40)	1	2	3	4	5
Scene 6)	1	2	3	4	5	Scene 41)	1	2	3	4	5
Scene 7)	1	2	3	4	5	Scene 42)	1	2	3	4	5
Scene 8)	1	2	3	4	5	Scene 43)	1	2	3	4	5
Scene 9)	1	2	3	4	5	Scene 44)	1	2	3	4	5
Scene 10)	1	2	3	4	5	Scene 45)	1	2	3	4	5
Scene 11)	1	2	3	4	5	Scene 46)	1	2	3	4	5
Scene 12)	1	2	3	4	5	Scene 47)	1	2	3	4	5
Scene 13)	1	2	3	4	5	Scene 48)	1	2	3	4	5
Scene 14)	1	2	3	4	5	Scene 49)	1	2	3	4	5
Scene 15)	1	2	3	4	5	Scene 50)	1	2	3	4	5
Scene 16)	1	2	3	4	5	Scene 51)	1	2	3	4	5
Scene 17)	1	2	3	4	5	Scene 52)	1	2	3	4	5
Scene 18)	1	2	3	4	5	Scene 53)	1	2	3	4	5
Scene 19)	1	2	3	4	5	Scene 54)	1	2	3	4	5
Scene 20)	1	2	3	4	5	Scene 55)	1	2	3	4	5
Scene 21)	1	2	3	4	5	Scene 56)	1	2	3	4	5
Scene 22)	1	2	3	4	5	Scene 57)	1	2	3	4	5
Scene 23)	1	2	3	4	5	Scene 58)	1	2	3	4	5
Scene 24)	1	2	3	4	5	Scene 59)	1	2	3	4	5
Scene 25)	1	2	3	4	5	Scene 60)	1	2	3	4	5
Scene 26)	1	2	3	4	5	Scene 61)	1	2	3	4	5
Scene 27)	1	2	3	4	5	Scene 62)	1	2	3	4	5
Scene 28)	1	2	3	4	5	Scene 63)	1	2	3	4	5
Scene 29)	1	2	3	4	5	Scene 64)	1	2	3	4	5
Scene 30)	1	2	3	4	5	Scene 65)	1	2	3	4	5
Scene 31)	1	2	3	4	5	Scene 66)	1	2	3	4	5
Scene 32)	1	2	3	4	5	Scene 67)	1	2	3	4	5
Scene 33)	1	2	3	4	5	Scene 68)	1	2	3	4	5
Scene 34)	1	2	3	4	5	Scene 69)	1	2	3	4	5
Scene 35)	1	2	3	4	5	Scene 70)	1	2	3	4	5

For question F, G, H and I, please refer to Section B in the attach booklet.

F. Scenes Description. Please write down one or two words that best describe each scene

- Scene 1: \_\_\_\_\_
- Scene 2: \_\_\_\_\_
- Scene 3: \_\_\_\_\_
- Scene 4: \_\_\_\_\_
- Scene 5: \_\_\_\_\_
- Scene 6: \_\_\_\_\_
- Scene 7: \_\_\_\_\_



Scene 8: \_\_\_\_\_  
 Scene 9: \_\_\_\_\_  
 Scene 10: \_\_\_\_\_  
 Scene 11: \_\_\_\_\_  
 Scene 12: \_\_\_\_\_  
 Scene 13: \_\_\_\_\_  
 Scene 14: \_\_\_\_\_  
 Scene 15: \_\_\_\_\_

G. Please refer to Section B and indicate the extent to which you believe the landscapes depicted provide habitats for fish and birds

1 = poor, 2 = fair, 3 = good, 4 = excellent, 5 = I do not know

Scene 1)	1	2	3	4	5	Scene 9)	1	2	3	4	5
Scene 2)	1	2	3	4	5	Scene 10)	1	2	3	4	5
Scene 3)	1	2	3	4	5	Scene 11)	1	2	3	4	5
Scene 4)	1	2	3	4	5	Scene 12)	1	2	3	4	5
Scene 5)	1	2	3	4	5	Scene 13)	1	2	3	4	5
Scene 6)	1	2	3	4	5	Scene 14)	1	2	3	4	5
Scene 7)	1	2	3	4	5	Scene 15)	1	2	3	4	5
Scene 8)	1	2	3	4	5						

H. Please refer to Section B and indicate the extent to which you believe the landscapes depicted are maintained?

1 = poor 2 = fair, 3 = good, 4 = excellent, 5 = I do not know

Scene 1)	1	2	3	4	5	Scene 9)	1	2	3	4	5
Scene 2)	1	2	3	4	5	Scene 10)	1	2	3	4	5
Scene 3)	1	2	3	4	5	Scene 11)	1	2	3	4	5
Scene 4)	1	2	3	4	5	Scene 12)	1	2	3	4	5
Scene 5)	1	2	3	4	5	Scene 13)	1	2	3	4	5
Scene 6)	1	2	3	4	5	Scene 14)	1	2	3	4	5
Scene 7)	1	2	3	4	5	Scene 15)	1	2	3	4	5
Scene 8)	1	2	3	4	5						

I. Please refer to section B and indicate the extent to which the water in each landscape is healthy for people to be around?

1 = poor, 2 = fair, 3 = good, 4 = excellent, 5 = I do not know

Scene 1)	1	2	3	4	5	Scene 9)	1	2	3	4	5
Scene 2)	1	2	3	4	5	Scene 10)	1	2	3	4	5
Scene 3)	1	2	3	4	5	Scene 11)	1	2	3	4	5
Scene 4)	1	2	3	4	5	Scene 12)	1	2	3	4	5
Scene 5)	1	2	3	4	5	Scene 13)	1	2	3	4	5
Scene 6)	1	2	3	4	5	Scene 14)	1	2	3	4	5
Scene 7)	1	2	3	4	5	Scene 15)	1	2	3	4	5
Scene 8)	1	2	3	4	5						

J. How much do you agree with the following statements about the benefits of having wetlands in an urban park? Please circle

1= disagree, 2 = somewhat disagree, 3 = neither agree nor disagree, 4 = somewhat agree, 5 = agree, 6 = I do not know

The presence of the wetlands in the park will;						
16. Increase fish & birds populations in the city	1	2	3	4	5	6
17. Minimize flooding	1	2	3	4	5	6
18. Enhance the aesthetic values of the park	1	2	3	4	5	6
19. Increase the ground water supply	1	2	3	4	5	6
20. Upgrade the quality of the water	1	2	3	4	5	6
21. Provide educational opportunities in the park	1	2	3	4	5	6
22. Improve local air quality	1	2	3	4	5	6

K. Below are the statements about design approaches. How much do you believe each of the following are in achieving good landscape architectural design?

1= disagree, 2 = somewhat disagree, 3 = neither disagree nor agree, 4 = somewhat agree, 5 = agree, 6 = I do not know

1. Design should be based more on history and art criticism	1	2	3	4	5	6
2. Nature should be a part of artistic expression	1	2	3	4	5	6
3. Artistic design is for the elite and rich	1	2	3	4	5	6
4. Design should be based more on natural resources and geography knowledge	1	2	3	4	5	6
5. By protecting nature, designers can protect humans	1	2	3	4	5	6
6. Nature should be preserved	1	2	3	4	5	6
7. Large scale landscape protection is needed	1	2	3	4	5	6
8. Design should be based on design and arch theories	1	2	3	4	5	6
9. Citizen should have a say how design should be	1	2	3	4	5	6
10. Nature is a setting for human life	1	2	3	4	5	6
11. Empowerment of users and citizens in design decisions	1	2	3	4	5	6
12. Participation of users in design process	1	2	3	4	5	6
13. Interaction of professional and user should occur	1	2	3	4	5	6
14. Design should be based more on natural science knowledge	1	2	3	4	5	6
15. Nature is superior, we should follow its course	1	2	3	4	5	6
16. Design must grounded in nature	1	2	3	4	5	6
17. Design is intuition, but also knowledge about psychology	1	2	3	4	5	6
18. Landscapes is for humans use if part of the purpose is to connect to nature	1	2	3	4	5	6
19. In design, either nature or humans can be important	1	2	3	4	5	6
20. Deep connection between humans and nature	1	2	3	4	5	6
21. Nature is a source for psychological and spiritual needs	1	2	3	4	5	6
22. Landscape architects are doing good for humans and environment	1	2	3	4	5	6

Please check  the response that best describe you (Information will be used for categorization only)

L. How do you describe your Landscape Architecture or Planning practice?  
Private consultant firm \_\_\_\_, Academic \_\_\_\_, Civil Service \_\_\_\_, other (please describe) \_\_\_\_\_

M. How long have you been practicing Landscape Architecture or Planning?  
Less than 3 year \_\_\_\_, 4 – 6 year \_\_\_\_, 7 - 9 year \_\_\_\_, More than 10 \_\_\_\_\_

- N. Where did you get your professional degree in Landscape Architecture or Planning?  
UiTM \_\_\_\_, UPM \_\_\_\_, USM \_\_\_\_, UIA \_\_\_\_, UTM \_\_\_\_,  
Australia \_\_\_\_, N. Zealand \_\_\_\_, USA \_\_\_\_, other (please describe) \_\_\_\_\_
- O. Do you have any a Diploma or Degree in Landscape Architecture, Architecture, Town and Regional Planning or anything related to Art in Design? Yes \_\_\_\_, No \_\_\_\_
- P. Do you have any a Diploma or Degree in Agriculture, Horticulture or any diploma/degree related to Natural Science? Yes \_\_\_\_, No \_\_\_\_
- Q. Do you have any graduate/post graduate degree or diploma? Yes \_\_\_\_, No \_\_\_\_
- R. What is your income per month? Less than RM1000 \_\_\_\_, RM 1000– RM3000 \_\_\_\_,  
RM3000 – RM5000 \_\_\_\_, RM5000 – RM 7000 \_\_\_\_, More than RM 7000 \_\_\_\_
- S. How old are you (range)? Below 20 years \_\_\_\_, 21 – 30 years \_\_\_\_, 31 – 40 years \_\_\_\_,  
41 – 50 years \_\_\_\_, 51 – 60 years \_\_\_\_, More than 60 years \_\_\_\_
- T. What is your gender?; Male \_\_\_\_, Female \_\_\_\_
- U. What is your ethnicity heritage?; Malay \_\_\_\_, Chinese \_\_\_\_, Indian \_\_\_\_, Other \_\_\_\_
- V. Please read the following statement and answer the following questions

**Wetlands are precious natural resources. Studies by the Forest Research Institute of Malaysia and local universities have shown that wetlands are important for people, as well as the environment. Wetlands help decrease flooding problems by slowing down the flowing of water and allowing the water to soak into the ground. The process also helps to clean and purify water. Wetlands also can absorb carbon from the atmosphere and store the carbon in the soils. As a result, the air will be cleaner and healthier. Wetlands also are important habitats for wildlife such as birds and fishes. Wetlands are unique landscapes and are now starting to be introduced into parks and open spaces. The introduction of wetlands in the park not only is going to increase the aesthetic value of the park, but also increases educational opportunities for visitors**

After reading the above statement, how much do you agree with the following benefits and values of wetlands?

1 = disagree, 2 = somewhat disagree, 3 = neither agree nor disagree, 4 = somewhat agree, 5 = agree, 6= I do not know

- Wetlands are valuable to:
- |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
| 8. Minimize flooding problems   | 1 | 2 | 3 | 4 | 5 | 6 |
| 9. Increase fresh water quality   | 1 | 2 | 3 | 4 | 5 | 6 |
| 10. Clean air and increase its quality  | 1 | 2 | 3 | 4 | 5 | 6 |
| 11. Increase wildlife and fish population   | 1 | 2 | 3 | 4 | 5 | 6 |
| 12. Increase the aesthetic values of open spaces  | 1 | 2 | 3 | 4 | 5 | 6 |
| 13. Increase environmental education opportunity  | 1 | 2 | 3 | 4 | 5 | 6 |
| 14. In general, what is your opinion about whether the government should include wetlands in the urban park and open space when possible? | 1 | 2 | 3 | 4 | 5 | 6 |

Thank you very much for time and your cooperation  
Suhardi Maulan

## APPENDIX D: Announcement letter to the public about the preference survey (Malay)



**UNIVERSITI PUTRA MALAYSIA**

JABATAN SENIBINA LANDSKAP  
FAKULTI REKA BENTUK DAN SENI BINA

Rujukan kami: shdi/public survey/announcement

Tarikh: 19 October 2004

Tuan/Encik/Puan/Cik,  
Assalamualaikum dan Selamat Sejahtera,

Pengumuman: Kaji Selidik mengenai Persepsi Orang Ramai terhadap Penggunaan Kawasan Lembab di Taman Bandaran

Adalah dimaklumkan kepada penduduk Seksyen 7, Kelana Jaya, pihak kami akan mengadakan kaji selidik mengenai persepsi orang ramai terhadap penggunaan kawasan lembab (wetland) di taman bandaran. Penduduk Seksyen 7 telah dipilih untuk terlibat dalam kaji selidik ini adalah kerana kedudukan Seksyen 7 yang berdekatan dengan Taman Tasik atau Taman Bandaran Kelana Jaya. Kaji selidik ini akan bermula mulai dari **23 October 2004 sehingga 6 November 2004**. Kami amat berharap penduduk Seksyen 7 dapat meluangkan masa mengambil bahagian dalam kaji selidik ini yang akan dijalankan **dari rumah ke rumah**.

Maklumbalas yang diterima akan digunakan untuk menggubal polisi bagi membantu pihak kerajaan tempatan dan arkitek landskap merekabentuk taman dan kawasan lapang yang lebih menarik dan memberikan kepuasan kepada pengguna. Kaji selidik ini akan mengambil masa selama lebih kurang 20 minit. Pengenalan diri dan jawapan anda akan dirahsiakan dan laporan kajian akan dibentangkan dengan cara pengenalan diri anda tidak akan diketahui. Untuk makluman dan sebarang soalan mengenai kaji selidik ini, sila hubungi penyelidik kajian ilmiah ini: Suhardi Maulan di Jabatan Senibina Landskap, Universiti Putra Malaysia di telefon (03) 8946- 6000 atau email [smaulan@vt.edu](mailto:smaulan@vt.edu)

Segala kerjasama dari pihak tuan/puan/cik amatlah dihargai dan diucapkan terima kasih

Suhardi Maulan  
Jabatan Senibina Landskap,  
Universiti Putra Malaysia,  
43400 Serdang,  
Selangor Darul Ehsan

## APPENDIX E

### Park Managers Interview Questions

Greetings,

The purpose of this study is to better understand the public's perceptions towards the introduction of wetlands in the urban green areas. For the first part of this study, I have asked the public about their preferences for different wetland settings. As a follow up to this, I would like to ask you some questions pertaining to your expectations toward public attitudes and preferences for wetlands. Your responses and identity will remain anonymous. The information will be used to help landscape policy makers and landscape architects/planners make better decisions regarding the design and planning of urban public green areas in the future.

1. How important do you believe it is to
  - a. Preserve wetlands in the urban green areas? (Record their answer)
  - b. Restore wetlands in the urban green areas? (Record their answer)
2. Why do you believe it is (important, not important or neither) [choose one] to
  - a. Preserve wetlands in urban green areas? (record their answer)
  - b. Restore wetlands in the urban green areas? (Record their answer)
3. [Read the statement to the policy makers] - Wetlands are a precious natural resource. Studies by the Forest Research Institute of Malaysia and local universities show that wetlands are important for people, as well as environment. Wetlands help to minimize flooding problems by slowing the flood water flow and absorb the flood water in situ. Wetlands help to clean, purify water and increase ground water capacity. Wetlands also help to store carbon in their soils so, as a result, the earth temperature will be stable and the air will be cleaner and healthier. In addition to those function and benefits, wetlands also provide important habitat for wildlife, including birds and fish. Wetlands are unique landscapes, and because of their valuable functions and benefits, wetlands have been introduced in the urban green areas.
  - a. Do you agree or disagree with this statement?(record their answer)
  - b. If you disagree, why do you disagree with the statement? (record their answer)
4. To what extent do you believe it is compatible to locate wetlands in recreational areas and urban open spaces that contain the following recreational activities? (show the list and note the compatibility)
5. In what ways are these recreational activities incompatible with wetlands in urban green areas? (record their answer)
6. Why are these recreational and urban open spaces incompatible with wetlands in the urban green areas? (Record their answer)
7. Do you believe there are any other activities that are incompatible with wetlands in urban green areas? (Record their answer)

8. I would like you to show you some pictures of wetlands that were part of the public survey. After you have had a chance to look at the scenes:
  - a. Pick 5 scenes that you believe the public would react positively to or like
  - b. Why do you believe the public would react positively to the scenes? (record their answer)
  - c. Pick 5 scenes that you believe the public will react negatively to or dislike (note the number of the scenes)
  - d. Why do you believe the public would react negatively to these scenes? (record their answer)
  - e. Please, pick 5 scenes that you believe the public will neither like or dislike (note the number of the scenes)
  - f. Why do you believe the public will neither like nor dislike these scenes? (record their answer)
  
9. I would like to show you another set of pictures of the wetlands that were also part of the public survey. After you have had a chance to look at the scenes:
  - a. Pick 3 scenes that you believe are the most valuable for fish and wildlife habitats? (note the number of the scenes)
  - b. Why do you believe they are valuable for fish and wildlife habitats? (record their answer)
  - c. Pick 3 scenes that you believe are the least valuable for fish and wildlife? (note the number of the scenes)
  - d. Why do you believe these scenes are least valuable for fish and wildlife? (record their answer)
  - e. Pick 3 scenes that you believe feel best depict a high level of maintenance level? (note the number of the scenes)
  - f. Why do you believe these scenes have high level of maintenance level? (record their answer)
  - g. Pick 3 scenes that you believe depict a low level of maintenance level. (note the number of the scenes)
  - h. Why do you the scenes depict a low level of maintenance level? (record their answer)
  - i. Pick 3 scenes that you believe depict a high water quality? (note the number of the scenes)
  - j. Why do you believe the quality of the water is high? (record their answer)

- k. Pick 3 scenes that you believe the quality of the water is low? (note the number of the scenes)
  - l. Why do you believe quality of the water is low? (record their answer)
10. I have gathered some information about people's backgrounds [show the list of variables background]:
- a. Which of these background characteristics do you believe are important to shape people's attitudes and preferences toward the introduction of wetlands in urban green areas? (Note the pick)
  - b. Why do you believe that (fill in background) background characteristics are important to shape people's attitudes and preferences towards the introduction of wetlands in urban green areas? (record their answer)
  - c. Are there any other factors that you believe are important to people's attitudes and preferences towards the introduction of wetlands in urban green areas, how and why? (record their answer)
11. In your opinion, are there any barriers to implementing a policy regarding wetlands
- a. Preservation in the urban natural open spaces? If so, what are they? (Record their answer)
  - b. Conservation in the urban natural open spaces? If so, what are they? (Record their answer)
  - c. Restoration in the urban natural open spaces? If so, what are they? (Record their answer)
12. Do you believe that current practice in planning and design of urban green areas gives adequate consideration to people's needs and preferences? Why do you believe this? (Record their answer)
13. How important do you believe it is that the planning of park and urban green areas be done in a manner consistent with public attitude and preferences?
14. How important do you believe that the restoration of wetlands in the urban green areas be done in a manner consistent with public attitude and preferences?
15. Last, can you suggest ways increase or enhance restoration of wetlands in the urban natural open spaces in Malaysia?

Are you interested in receiving a summary of my research findings? If you do, I will mail it to you and offer to discuss the findings with you once the study completed

Thank you very much for your valuable time.

## APPENDIX F

### Park Managers Interview Recording Sheets

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Agency (circle one): MPPJ, DBKL, MPKj, PJ Corp, MBSA, JLN, others \_\_\_\_\_

Position: \_\_\_\_\_

Place of interview: \_\_\_\_\_

<b>Park managers' knowledge and attitude for the introduction of wetlands in the urban natural open spaces</b>
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*Question 1a and 2a:* The importance of wetlands to be preserved in the urban green areas

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*Question 1b and 2b:* The importance of wetlands to be restored in the urban green areas

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Question 3a: Agreement on the statements; **YES** \_\_\_\_ **NO** \_\_\_\_ (check one)

Question 3b: Reason for the disagreement

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**Park managers' anticipation for compatibility of wetlands with urban green areas activities [in relation to public attitude towards the design and management of urban green areas]**

Question 4: Compatibility of activities (check the box)

Activities:	Compatible	Incompatible
Jogging		
Walking		
Exercise		
Sight seeing		
Sitting and relaxing		
Solitude		
Contemplation		
Exploring the park		
Viewing nature		
Studying nature		
Spending time with family		
Spending time with friends		
Children's playground		
Picnicking		
Having a \ date		

Question 5 and 6: Reasons for incompatibility

(From #4) Activities	(5) How	(6) Why

Question 7: Other activities

Activities	How	Why

**Park managers' anticipation for public preferences for the introduction of wetlands in the urban green**

Question 8a: Anticipation of scenes public prefer the most

Scenes no:					
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Question 8b: Reason

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Question 8c: Anticipation of scenes public prefer the least

Scenes no:					
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Question 8d: Reason

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Question 8e: Anticipation of scenes public neither like nor dislike

Scenes no:					
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Question 8f: Reason

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Question 9a: Scenes most valuables for fish and wildlife

Scenes no:			
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Question 9b: Reason

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Question 9c: Scenes least valuables for fish and wildlife

Scenes no:			
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Question 9d: Reason

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Question 9e: Scenes with high level of maintenance

Scenes no:			
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Question 9f: Reason

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Question 9g: Scenes with low level of maintenance?

Scenes no:			
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Question 9h: reason

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Question 9i: Scenes with high water quality

Scenes no:			
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Question 9j: Reason

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Question 9k: Scenes with low water quality

Scenes no:			
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Question 9l: Reason

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Question 10a: Influence of people background to people preferences and attitude for wetlands (check the box)

Background Variables	Factor	Non Factor
Frequency of use of urban green areas		
Participation in environmental activities		
Participation in wild land recreation		
Live near the wetlands areas		
Education level		
Income		
Age		
Gender		
Ethnicity		

Question 10b: Reasons to influence

(From 10a) Background	(10b) How	(10b) Why

Question 10c: Other factors

Activities	How	Why

**Barriers to implement policy regarding wetlands preservation, conservation and restoration in the urban green areas**

Question 11: Barriers to implement policy

a) Preservation:

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b) Conservation

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c) Restoration

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**Park managers' attitude towards the importance to understand people attitude and preferences**

Question 12: Relation of current practice of planning and design with people needs and preferences

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Question 13: Importance to design park and urban green areas in consistent with people attitude and preferences

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Question 14: Importance to restore wetlands in the urban green areas in consistent with people attitude and preferences

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Question 15: Suggestion to improve the protection, conservation and restoration of wetlands in the urban green areas in Malaysia

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Interested to receive a summary of findings: Yes \_\_\_\_ No \_\_\_\_

Interested to discuss the findings: Yes \_\_\_\_ No \_\_\_\_

## APPENDIX G

04-406




### Institutional Review Board

Dr. David M. Moore  
IRB (Human Subjects) Chair  
Assistant Vice President for Research Compliance  
CVM Phase II- Duckpond Dr., Blacksburg, VA 24061-0442  
Office: 540/231-4991; FAX: 540/231-6033  
email: moored@vt.edu

DATE: August 31, 2004

### MEMORANDUM

TO: Patrick A. Miller Landscape Architecture 0113  
Suhardi Maulan LAR 113

FROM: David Moore 

SUBJECT: **IRB Expedited Approval:** "People Perception of Wetlands in the Urban Natural Areas" IRB # 04-406

This memo is regarding the above-mentioned protocol. The proposed research is eligible for expedited review according to the specifications authorized by 45 CFR 46.110 and 21 CFR 56.110. As Chair of the Virginia Tech Institutional Review Board, I have granted approval to the study for a period of 12 months, effective August 31, 2004.

cc: File  
Department Reviewer Dean Bork LA 0113

## APPENDIX H

### Mean Scores for All Scenes for Both Participant Groups



Scene 4 (public = 2.61; LA = 3.63)



Scene 8 (public = 2.70; LA = 3.51)



Scene 5 (public = 3.05; LA = 2.89)



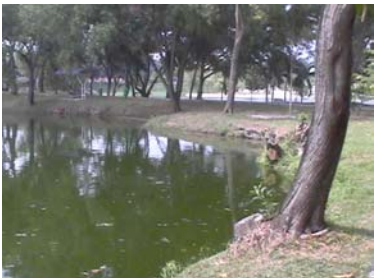
Scene 9 (public = 2.52; LA = 3.30)



Scene 6 (public = 2.70; LA = 3.63)



Scene 10 (public = 3.44; LA = 3.72)



Scene 7 (public = 3.05; LA = 3.18)



Scene 11 (public = 2.64; LA = 3.94)





Scene 12 (public = 2.42; LA = 4.04)



Scene 17 (public = 3.72; LA = 3.19)



Scene 13 (public = 2.81; LA = 4.19)



Scene 18 (public = 3.23; LA = 3.88)



Scene 14 (public = 2.12; LA = 4.09)



Scene 19 (public = 3.86; LA = 3.51)



Scene 15 (public = 1.87; LA = 3.51)



Scene 20 (public = 3.74; LA = 3.33)



Scene 16 (public = 3.78; LA = 4.21)



Scene 21 (public = 3.64; LA = 4.05)



Scene 22 (public = 2.43; LA = 4.10)



Scene 27 (public = 3.36; LA = 3.38)



Scene 23 (public = 2.08; LA = 3.83)



Scene 28 (public = 3.08; LA = 2.86)



Scene 24 (public = 2.41; LA = 3.90)



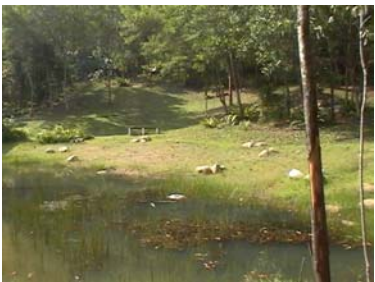
Scene 29 (public = 2.91; LA = 2.63)



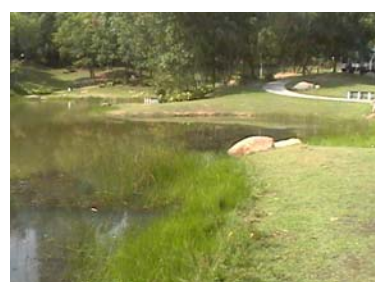
Scene 25 (public = 2.44; LA = 3.93)



Scene 30 (public = 3.52; LA = 3.07)



Scene 26 (public = 2.71; LA = 3.40)



Scene 31 (public = 2.83; LA = 3.76)





Scene 32 (public = 3.55; LA = 3.71)



Scene 37 (public = 3.76; LA = 4.04)



Scene 33 (public = 2.66; LA = 3.91)



Scene 38 (public = 2.72; LA = 4.36)



Scene 34 (public = 2.26; LA = 3.83)



Scene 39 (public = 3.32; LA = 2.95)



Scene 35 (public = 3.53; LA = 3.48)



Scene 40 (public = 3.48; LA = 3.29)



Scene 36 (public = 3.44; LA = 3.05)



Scene 41 (public = 3.03; LA = 3.58)



Scene 42 (public = 3.44; LA = 3.23)



Scene 47 (public = 3.06; LA = 3.90)



Scene 43 (public = 3.32; LA = 3.57)



Scene 48 (public = 2.82; LA = 4.22)



Scene 44 (public = 2.63; LA = 3.37)



Scene 49 (public = 3.30; LA = 3.80)



Scene 45 (public = 2.78; LA = 3.93)



Scene 50 (public = 3.06; LA = 4.22)



Scene 46 (public = 3.01; LA = 4.23)



Scene 51 (public = 3.02; LA = 4.16)





Scene 52 (public = 3.62; LA = 3.07)



Scene 57 (public = 2.93; LA = 4.05)



Scene 53 (public = 3.36; LA = 3.87)



Scene 58 (public = 3.07; LA = 4.21)



Scene 54 (public = 3.00; LA = 3.45)



Scene 59 (public = 3.28; LA = 3.10)



Scene 55 (public = 2.60; LA = 3.38)



Scene 60 (public = 3.73; LA = 3.01)



Scene 56 (public = 3.17; LA = 3.31)



Scene 61 (public = 3.84; LA = 2.98)



Scene 62 (public = 3.90; LA = 3.01)



Scene 65 (public = 2.90; LA = 4.15)



Scene 63 (public = 3.75; LA = 3.11)



Scene 66 (public = 2.80; LA = 3.46)



Scene 64 (public = 3.53; LA = 3.26)



Scene 67 (public = 2.68; LA = 3.85)

## APPENDIX I

### Verbal Descriptions of the Scenes by the Public Group

Public dimension 1: Parklike setting with water, pleasant places to be

Category/Theme	Scene 2 (32)	Scene 3 (64)	Scene 4 (17)	Scene 5 (43)	Scene 6 (16)	Total	Percentage
<b>Frequency</b>							
<b>Aesthetically pleasing</b>	<b>74</b>	<b>73</b>	<b>85</b>	<b>74</b>	<b>68</b>	<b>374</b>	<b>72.76</b>
okay	35	29	42	39	43	188	
beautiful	22	15	21	18	16	92	
interesting	12	14	14	11		51	
shade		8	1		3	12	
fresh	2	2	2	2	2	10	
serene				4	4	8	
good	1	1	1			3	
calm		1	2			3	
like	1	1				2	
relax		2				2	
tranquil	1					1	
modern			1			1	
peaceful			1			1	
<b>Maintenance</b>	<b>15</b>	<b>11</b>	<b>9</b>	<b>6</b>	<b>5</b>	<b>46</b>	<b>8.95</b>
clean	6	7	3	3	2	21	
maintained	4	3	3	3	3	16	
neat			2			2	
dirty	1	1				2	
water clog	2					2	
proper managed			1			1	
muddy	1					1	
unmanaged	1					1	
<b>Water</b>	<b>4</b>	<b>18</b>	<b>4</b>	<b>15</b>	<b>6</b>	<b>47</b>	<b>9.14</b>
dirty water		5	2	14	4	25	
clean water	1	7	1			9	
good water	1			1	2	4	
murky water	1	2				3	
smelly water		2	1			3	
water not maintain		1				1	
water okay		1				1	
water	1					1	
<b>Facility</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>13</b>	<b>2.53</b>

suitable for recreation	1	1	1	1	1	5	
facility	2	1				3	
fishing			1	1	1	3	
rest area				1	1	2	
<b>Naturalness</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>10</b>	<b>1.95</b>
man made	1	1	1	1	1	5	
natural				1	3	4	
greenery			1			1	
<b>Aesthetically not pleasing</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>1</b>	<b>6</b>	<b>1.17</b>
don't like			1	1		2	
scary				1	1	2	
less beautiful		1				1	
not fresh				1		1	
<b>Spatial quality/organization</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>1.17</b>
arranged		1				1	
messy					1	1	
unorganized			1		2	3	
crowded			1			1	
<b>Structures</b>	<b>3</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0.97</b>
crossing bridge	1					1	
restaurant	1					1	
interesting road	1					1	
nice shelter			1			1	
shelter			1			1	
<b>Landscape types</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>5</b>	<b>0.97</b>
natural lake					1	1	
beautiful lake		1	1	1		3	
landscapes					1	1	
<b>Vegetation</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0.39</b>
Useful bamboo		1				1	
plants destroyed	1					1	
<b>Total Overall</b>	<b>101</b>	<b>109</b>	<b>108</b>	<b>104</b>	<b>92</b>	<b>514</b>	<b>100.00</b>



Public dimension 3: Natural wetlands with smooth texture, access block

Category/Theme	Scene 1 (46)	Percentage
<b>Aesthetically pleasing</b>	<b>120</b>	<b>65.93</b>
okay	21	
beautiful	18	
interesting	6	
fresh	3	
quite	1	
tranquil	1	
<b>Vegetation</b>	<b>20</b>	<b>10.99</b>
long grasses	14	
bushy	4	
many weeds	2	
<b>Aesthetically not pleasing</b>	<b>15</b>	<b>8.24</b>
not okay	7	
not interesting	6	
not beautiful	1	
don't like	1	
<b>Maintenance</b>	<b>13</b>	<b>7.14</b>
dirty	5	
not maintained	4	
need to be cleaned	2	
unmanaged	1	
messy	1	
<b>Naturalness</b>	<b>5</b>	<b>2.75</b>
natural	5	
<b>Landscape types</b>	<b>5</b>	<b>2.75</b>
empty lake	2	
natural lake	1	
forest	1	
wasteland	1	
<b>Water</b>	<b>4</b>	<b>2.20</b>
good water	2	
beautiful water	1	
water	1	
<b>Total</b>	<b>182</b>	<b>100.00</b>

Public dimension 4: Dirty water

Category/Theme	Scene 8 (65)	Scene 12 (41)	Scene 13 (44)	Scene 14 (67)	Total	Percentage	
	<b>Frequency</b>						
<b>Aesthetically pleasing</b>	<b>73</b>	<b>62</b>	<b>30</b>	<b>48</b>	<b>213</b>	<b>52.08</b>	
okay	41	34	19	33	127		
beautiful	19	16	4	9	48		
interesting	8	6	6	4	24		
calm	5	6	1	2	14		
<b>Aesthetically not pleasing</b>	<b>11</b>	<b>12</b>	<b>26</b>	<b>13</b>	<b>62</b>	<b>15.16</b>	
not okay		4	15	4	23		
not interesting	6	4	3	5	18		
not beautiful	1	4	7	2	14		
hot	4				4		
don't like			1	1	2		
bad				1	1		
<b>Water</b>	<b>1</b>	<b>13</b>	<b>19</b>	<b>7</b>	<b>40</b>	<b>9.78</b>	
dirty water		8	10	3	21		
murky water		5	7	3	15		
water not good			1	1	2		
bad water quality	1		1		2		
<b>Maintenance</b>	<b>10</b>	<b>10</b>	<b>11</b>	<b>7</b>	<b>38</b>	<b>9.29</b>	
no maintained	4	2	5	2	13		
dirty	1	5	3	2	11		
not clean	3	1	1	1	6		
need to be maintained	2	2		1	5		
smelly			2	1	3		
<b>Vegetation</b>	<b>1</b>	<b>1</b>	<b>10</b>	<b>10</b>	<b>22</b>	<b>5.38</b>	
long grasses		1	1	8	10		
bushy	1		6		7		
unique plants			1	2	3		
trees not maintain			2		2		
<b>Organization</b>	<b>4</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>16</b>	<b>3.91</b>	
empty	2	2		2	6		
arranged			4		4		
not arranged				2	2		
messy				2	2		
neat	2				2		
<b>Naturalness</b>	<b>4</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>6</b>	<b>1.47</b>	
Natural	4		2		6		
<b>View</b>					<b>5</b>	<b>1.22</b>	
intermediate view		1	1	1	3		
good view		1		1	2		
<b>Facility/Activity</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>0.98</b>	
recreation			1	1	2		

fishing area		1			1	
jogging				1	1	
Landscape type	1	1	1	0	3	0.73
forest		1			1	
landscape okay			1		1	
wastelands	1				1	
Total	105	102	104	93	409	100.00

Public dimension 5: Natural wetlands with rough texture, access block

Category/Theme	Scene 10 (33)	Scene 15 (14)	Total	Percentage
	<b>Frequency</b>			
<b>Aesthetically not pleasing</b>	<b>46</b>	<b>34</b>	<b>80</b>	<b>36.70</b>
not okay	23	19	42	
not beautiful	13	9	22	
not interesting	9	5	14	
don't like	1	1	2	
<b>Aesthetically pleasing</b>	<b>23</b>	<b>19</b>	<b>42</b>	<b>19.27</b>
okay	13	16	28	
beautiful	7	1	8	
calm	3		3	
interesting		2	2	
<b>Maintenance</b>	<b>12</b>	<b>17</b>	<b>29</b>	<b>13.30</b>
not maintain	5	8	13	
dirty	6	5	11	
smelly	1	3	4	
clean		1	1	
<b>Water</b>	<b>7</b>	<b>19</b>	<b>26</b>	<b>11.93</b>
dirty water	3	16	19	
no water	4		4	
muddy		3	3	
<b>Landscape type</b>	<b>18</b>	<b>0</b>	<b>18</b>	<b>8.26</b>
forest	8		8	
mangrove	6		6	
swamp	2		2	
lake	1		1	
wasteland	1		1	
<b>Vegetations</b>	<b>7</b>	<b>7</b>	<b>14</b>	<b>6.42</b>
bushy	1	6	7	
lotus	4		4	
trees	1	1	2	
plants		1	1	
<b>Organization</b>	<b>1</b>	<b>5</b>	<b>6</b>	<b>2.75</b>
messy	1	4	5	
not arranged		1	1	
<b>Naturalness</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0.92</b>
natural		1	1	
manmade		1	1	
<b>Activities</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0.46</b>
recreation		1	1	
<b>Total</b>	<b>114</b>	<b>104</b>	<b>218</b>	<b>100.00</b>

## APPENDIX J

### Verbal Descriptions of the Scenes by Landscape Architects

#### Landscape architect preference dimension 1: Diverse natural vegetation

Category/Theme	Scene 15 (14)	Percentage
	Frequency	
<b>Naturalness</b>	<b>40</b>	<b>40.00</b>
tropical	24	
nature	11	
green	1	
too lush	1	
man made	2	
interrupt	1	
<b>Aesthetically pleasing</b>	<b>15</b>	<b>15.00</b>
good	2	
nice	3	
okay	1	
fair	1	
aesthetic	1	
comfortable	1	
peaceful	1	
lively	1	
so cool	1	
calm	1	
original	1	
beautiful	1	
<b>Maintenance</b>	<b>14</b>	<b>14.00</b>
messy/untidy	7	
bad maintenance	5	
maintenance needed	2	
<b>Aesthetically not pleasing</b>	<b>6</b>	<b>11.00</b>
sorrow	4	
too much	1	
haphazard	1	
<b>Vegetation</b>	<b>11</b>	<b>11.00</b>
ornament	1	
mixture of plants	1	
plants	2	
too bushy	3	
too many plants	3	
dense	1	
<b>Design quality/organization</b>	<b>9</b>	<b>9.00</b>
complexity	1	
crowded	5	

compromise/balance	1	
texture	1	
too common	1	
<b>Landscape type</b>	<b>3</b>	<b>3.00</b>
pond	1	
natural lake	1	
wetlands	1	
<b>Water</b>	<b>2</b>	<b>2.00</b>
murky water	1	
bad water quality	1	
Total	100	100.00

Landscape architect preference dimension 2: Visually pleasing wetlands

Category/Theme	Scene 8 (65)	Scene 11 (25)	Scene 14 (67)	Total	Percentage
<b>Frequency</b>					
<b>Aesthetically pleasing</b>	<b>36</b>	<b>27</b>	<b>27</b>	<b>90</b>	<b>30.41</b>
cool	7	2	2	11	
beautiful	3	3	3	9	
nice	5	10	4	19	
okay	1	2	3	6	
feel harmonious	1			1	
tranquil	5		2	7	
peaceful	8	2	3	13	
shady	1		1	2	
safe	1			1	
calm	4	1	4	9	
good		2	2	4	
relax		3	2	5	
freedom		1	1	2	
unique		1		1	
<b>Naturalness</b>	<b>19</b>	<b>8</b>	<b>19</b>	<b>46</b>	<b>15.54</b>
natural	15	1	9	25	
mix	2	3	7	12	
man made	2	3	3	8	
lost the nature		1		1	
<b>Design quality</b>	<b>14</b>	<b>12</b>	<b>11</b>	<b>37</b>	<b>12.50</b>
conserve/protect/preserve	5			5	
simple	2	1	1	4	
frame	4			4	
still	1			1	
edge treatment	1			1	
order		1		1	
typical		3	4	7	
harmony		3	1	4	
planned		1		1	
balance		3	4	7	
normal			1	1	
need to develop	1			1	
<b>Landscape type</b>	<b>8</b>	<b>13</b>	<b>4</b>	<b>25</b>	<b>8.45</b>
tropical area	1			1	
natural lake	4	3	1	8	
mines	2			2	
wetland	1	3		4	
park		7	2	9	
pond			1	1	
<b>View</b>	<b>11</b>	<b>2</b>	<b>9</b>	<b>22</b>	<b>7.43</b>
good view	7		4	11	
vista	2			2	

visual	1			1	
open view	1	1		2	
scenic		1	1	2	
panoramic			4	4	
<b>Structure</b>	<b>0</b>	<b>15</b>	<b>3</b>	<b>18</b>	<b>6.08</b>
pavement		1		1	
walkway/pathway		14		14	
lighting			2	2	
amenities			1	1	
<b>Spatial quality/organization</b>	<b>8</b>	<b>1</b>	<b>4</b>	<b>13</b>	<b>4.39</b>
coherence			1	1	
chaos			2	2	
open	4			4	
clear	2			2	
legible		1		1	
barren	2		1	3	
<b>Good maintenance</b>	<b>1</b>	<b>10</b>	<b>7</b>	<b>18</b>	<b>6.08</b>
free maintenance	1			1	
clean		3		3	
no maintenance		2		2	
need maintenance			2	2	
dirty			3	3	
maintained		5	2	7	
<b>Aesthetically not pleasing</b>	<b>4</b>	<b>0</b>	<b>5</b>	<b>9</b>	<b>3.04</b>
hot	3		1	4	
bored	1		1	2	
confuse			1	1	
not interesting			2	2	
<b>Good water quality</b>	<b>8</b>	<b>0</b>	<b>2</b>	<b>10</b>	<b>3.38</b>
water	5			5	
muddy water			2	2	
clean water	3			3	
<b>Facility/Activity</b>	<b>1</b>	<b>5</b>	<b>0</b>	<b>6</b>	<b>2.03</b>
fishing	1			1	
amenities		2		2	
jogging		1		1	
recreation		1		1	
resting activities		1		1	
<b>Habitat</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0.68</b>
good habitat	2			2	
<b>Total</b>	<b>112</b>	<b>95</b>	<b>93</b>	<b>296</b>	<b>100.00</b>



Landscape architect preferences dimension 3: Natural wetlands

Category/Theme	Scene 1 (46)	Scene 9 (15)	Total	Percentage
	<b>Frequency</b>			
<b>Aesthetically pleasing</b>	<b>49</b>	<b>8</b>	<b>57</b>	<b>28.08</b>
peace	8		8	
cool/serene/tranquil/calm	32		32	
nice	4		4	
soft	3	2	5	
refreshing	1		1	
beautiful	1	4	5	
okay		1	1	
peaceful		1	1	
<b>Naturalness</b>	<b>22</b>	<b>19</b>	<b>41</b>	<b>20.20</b>
natural	22	1	23	
untouched		17	17	
man made		1	1	
<b>Spatial quality/organization</b>	<b>15</b>	<b>15</b>	<b>30</b>	<b>14.78</b>
open	10		10	
vast area	2		2	
dark/deep		9	9	
enclose		3	3	
messy		2	2	
barren	3	1	4	
<b>Maintenance</b>	<b>1</b>	<b>15</b>	<b>16</b>	<b>7.88</b>
damaged		8	8	
smell		1	1	
poor management		3	3	
dirty		1	1	
erosion		1	1	
clean	1		1	
erosion		1	1	
<b>Landscape type</b>	<b>1</b>	<b>13</b>	<b>14</b>	<b>6.90</b>
wetlands/swamp	1	2	3	
lake		1	1	
mangroves		7	7	
jungle/forest		2	2	
tropical		1	1	
<b>Good water quality</b>	<b>9</b>	<b>1</b>	<b>10</b>	<b>4.93</b>
water	6		6	
open water	1		1	
shallow waters	1		1	
muddy		1	1	
clean water	1		1	
<b>View</b>	<b>9</b>	<b>0</b>	<b>9</b>	<b>4.43</b>
good view	2		2	
view	2		2	

panoramic	5		5	
<b>Vegetation</b>	<b>5</b>	<b>3</b>	<b>8</b>	<b>3.94</b>
natural plants	3	1	4	
plants	1		1	
grass	1		1	
trees to be maintained		1	1	
lack of trees		1	1	
<b>Aesthetically not pleasing</b>	<b>3</b>	<b>4</b>	<b>7</b>	<b>3.45</b>
bored	1		1	
confuse	2		2	
unsafe		3	3	
bored		1	1	
<b>Design attribute</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>2.96</b>
harmony	1		1	
typical		1	1	
vertical		1	1	
monotonous	1		1	
not accessible		2	2	
<b>Habitat</b>	<b>4</b>	<b>1</b>	<b>5</b>	<b>2.46</b>
habitat	3	1	4	
birds habitat	1		1	
<b>Total</b>	<b>120</b>	<b>83</b>	<b>203</b>	<b>100.00</b>

Landscape architect preference dimension 4: Natural wetlands with scruffy vegetation

Category/Theme	Scene 10 (33)	Percentage
	Frequency	
<b>Naturalness</b>	<b>16</b>	<b>16.16</b>
natural	15	
man made	1	
<b>Aesthetically pleasing</b>	<b>15</b>	<b>15.15</b>
okay	3	
peaceful	1	
natural beauty/unique	2	
nice	5	
cool	2	
tranquil/calm	2	
<b>Vegetation</b>	<b>13</b>	<b>13.13</b>
lotus	7	
plants	3	
plants succession	1	
bushes	1	
flora	1	
<b>Design quality</b>	<b>12</b>	<b>12.12</b>
cover	7	
harmony	1	
original	1	
richness	1	
texture	1	
over design	1	
<b>Habitat</b>	<b>11</b>	<b>11.11</b>
wild habitat	10	
fish	1	
<b>Landscape types</b>	<b>9</b>	<b>9.09</b>
in land wetlands	1	
lake/ponds	2	
wetlands/swamps	4	
swamp	1	
pond	1	
<b>Maintenance</b>	<b>8</b>	<b>8.08</b>
poor management	4	
dirty	2	
abandoned	2	
<b>Water</b>	<b>6</b>	<b>6.06</b>
muddy	6	
<b>Organization/Spatial quality</b>	<b>5</b>	<b>5.05</b>
messy	4	
havoc	1	
nice arrangement	1	
crowded	2	

dense/deep	1	
enclose	2	
Aesthetically not pleasing	2	2.02
bored	1	
lack of shades	1	
Facility/Activity	2	2.02
recreation	1	
timber	1	
Total	99	100.00

Landscape architect preference dimension 5: Human influences

Category/Theme	Scene 2 (32)	Scene 3 (64)	Scene 4 (17)	Scene 5 (43)	Scene 7 (66)	Scene 12 (41)	Scene 13 (44)	Total	%
	<b>Frequency</b>								
<b>Naturalness</b>	<b>9</b>	<b>14</b>	<b>20</b>	<b>24</b>	<b>29</b>	<b>40</b>	<b>14</b>	<b>150</b>	<b>23.26</b>
natural	3		2	4	4	37	2	52	
mix	1	1	1	5	17	2	1	28	
man made	2	7	3	8	3		2	25	
too hard		3	7	2	1		1	14	
not natural		1						1	
hard/rigid	3	2	5	5	2	1	4	22	
artificial			2		2		4	8	
<b>Aesthetically pleasing</b>	<b>26</b>	<b>24</b>	<b>7</b>	<b>30</b>	<b>5</b>	<b>23</b>	<b>9</b>	<b>124</b>	<b>19.22</b>
nice	7	1	1	8	1	2	2	22	
calm/cool/tranquil	8	10		14		1		33	
good	3	1	1		1	1	2	9	
fair	1					1		2	
peace	2		1			16	5	24	
comfortable	1	1						2	
bright	1							1	
shady	2	3				1		6	
relax	1	3	3	3				10	
okay		5	1					6	
refreshing				2	2			4	
beautiful				3	1	1		5	
<b>Design attribute</b>	<b>15</b>	<b>11</b>	<b>15</b>	<b>9</b>	<b>4</b>	<b>6</b>	<b>3</b>	<b>63</b>	<b>9.77</b>
common	3	3	3	7	2	3	2	23	
connection	2					1		3	
reflection	1	1				1		3	
nice back drop	2	1						3	
separator	1							1	
contrast	1		1					2	
static	1			2	1			4	
character/image/identity		2				1		3	
focal point	3							3	
simple		2					1	3	
traditional			4					4	
architecture			6					6	
soft			1					1	
texture					1			1	
destruction	1							1	
old fashion		1						1	
static		1						1	
<b>Structure</b>	<b>23</b>	<b>0</b>	<b>16</b>	<b>6</b>	<b>0</b>	<b>7</b>	<b>0</b>	<b>52</b>	<b>8.06</b>
structure	10					1		11	
bridge/boardwalk	11					5		16	

constructed	2			1				3	
pergola			1					1	
building			4					4	
hardscapes			11	1		1		13	
rock/stone/rubble				4				4	
<b>Landscape type</b>	<b>8</b>	<b>11</b>	<b>16</b>	<b>8</b>	<b>0</b>	<b>4</b>	<b>0</b>	<b>47</b>	<b>7.29</b>
park	5	9	1	3				18	
pond/lake	1	1	1	4		3		10	
lake side scene	2	1						3	
water front/promenade			2					2	
urban			12	1				13	
wetlands						1		1	
<b>Activity</b>	<b>9</b>	<b>22</b>	<b>4</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>42</b>	<b>6.51</b>
facility	5		2			1	1	9	
picnic	1	8		1			1	11	
people place	2		1					3	
amenities	1	1						2	
fishing		1		1				2	
recreation		3	1	1	1			6	
benches		8						8	
family area		1						1	
<b>Aesthetically not pleasing</b>	<b>2</b>	<b>9</b>	<b>8</b>	<b>2</b>	<b>11</b>	<b>5</b>	<b>6</b>	<b>43</b>	<b>6.67</b>
hot	1		4	1				6	
unpleasant	1	1			1			3	
bored		3	3	1	7		2	16	
lonely		1						1	
scary/fear/unsafe		3	1		2	3	1	10	
not good		1			1	2	3	7	
<b>Spatial quality/organization</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>31</b>	<b>4.81</b>
balance	4	2		4				10	
organized	1			1				2	
open				1				1	
empty						1		1	
mystery	1							1	
barren space	1	1						2	
crowded			2		2			4	
messy		1			6		3	10	
<b>View</b>	<b>6</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>9</b>	<b>2</b>	<b>21</b>	<b>3.26</b>
scenic	3	3	1			6	2	15	
visibility	3							3	
panoramic						3		3	
<b>Lake edge</b>	<b>0</b>	<b>4</b>	<b>2</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>21</b>	<b>3.26</b>
lake edge		3	1	3	2		2	11	
lake edge need natural		1					1	2	
natural slope				2				2	
hard edge			1	2	3			6	

<b>Maintenance and cleanliness</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>10</b>	<b>2</b>	<b>5</b>	<b>24</b>	<b>3.72</b>
dirty					6		4	10	
needs maintenance					4	1	1	6	
Maintained	2	2	3					7	
clean						1		1	
<b>Water</b>	<b>0</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>15</b>	<b>2.33</b>
bad water quality		2						2	
dirty water					4		2	6	
muddy					1			1	
stagnant water					1			1	
water element			2					2	
clean water			1	2				3	
<b>Vegetation</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>3</b>	<b>10</b>	<b>1.55</b>
trees							2	2	
bushes					1		1	2	
nice plants					1	1		2	
pandan					2			2	
big shrubs					1			1	
wrong plants selection					1			1	
<b>Habitat</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>0.31</b>
close to aquatic life	1							1	
diversity	1							1	
<b>Total</b>	<b>107</b>	<b>104</b>	<b>95</b>	<b>97</b>	<b>77</b>	<b>99</b>	<b>49</b>	<b>645</b>	<b>100.00</b>