

August 2015

RE: Ecological Section of EM&A Report for August 2015 (operational phase monitoring)

David Stanton <djs@aechk.hk>

2 September 2015 at 14:57

To: "Chris C.W. Chan" <chris.chan1@leightonasia.com>, "Chu, W.B." <wb.chu@veolia.com>

Cc: Mike Leven <mrl@aechk.hk>, Philip Tang <pthk@aechk.hk>

Hi WB – I'm not quite sure how you want this wording for the Operational Phase monitoring. This text is based on that produced during the construction stage monitoring

Please see below for the text to be integrated onto the Monthly EMA Report (Operational Phase) for August 2015. I have also attached the data from the monthly bird survey of the Middle Lagoon. Highlighted text will need to be updated as appropriate by yourself/ET.

A single monitoring visit was conducted on 31st August 2015 to assess the measures in place to minimise the disturbance impact to wildlife. The 3m high hoarding to reduce disturbance impact of human activities on adjacent areas (namely the Middle Lagoon and other natural habitats) remains in place. No observations of disturbance through construction operations to wildlife on adjacent habitats were made during this and the other monitoring checks conducted during this period.

Monthly monitoring of avifauna and their notable behaviour, such as breeding activities in the Middle Lagoon, was conducted on 31st August 2015. The Monitoring Area included the whole Middle Lagoon with particular focus on the areas in water close to the Sludge Treatment Facility). All birds seen and heard were identified and counted. Any signs of breeding (e.g. nests, recently fledged juveniles) of birds (e.g. Little Grebe) were also recorded. The coverage of water and PFA filling activities in the Middle Lagoon as well as construction activities were also recorded as reference information.

The list of bird surveys recorded from the survey conducted on 31st August 2015 can be seen in Table 4.7. On that date, water coverage in the Middle Lagoon (in the unfilled section of the Lagoon) was 70%. No PFA filling activities were recorded in the Middle Lagoon; much of the former lagoon has already been raised up to bund level. A single Little Grebe was recorded in the remaining sections of the Middle Lagoon, which have not been filled.

Table 4.7 Bird Species observed during Monthly Monitoring Surveys in August 2015.

Best regards

31-Aug-15

Water levels

70%

Middle Lagoon

Breeding activity

Little Grebe	<i>Tachybaptus ruficollis</i>	1 none observed
Little Egret	<i>Egretta garzetta</i>	2 none observed
Chinese Pond Heron	<i>Ardeola bacchus</i>	1 none observed
Black-winged Stilt	<i>Himantopus himantopus</i>	4 none observed
Green Sandpiper	<i>Tringa ochropus</i>	1 none observed
Spotted Dove	<i>Spilopelia chinensis</i>	3 none observed
Great Coucal	<i>Centropus sinensis</i>	1 none observed
Common Kingfisher	<i>Alcedo atthis</i>	1 none observed
House Swift	<i>Apus nipalensis</i>	10 none observed
Common Magpie	<i>Pica pica</i>	1 none observed
Long-tailed Shrike	<i>Lanius schach</i>	1 none observed
Black Drongo	<i>Dicrurus macrocercus</i>	8 none observed
Chinese Bulbul	<i>Pycnonotus sinensis</i>	2 none observed
Sooty-headed Bulbul	<i>Pycnonotus aurigaster</i>	2 none observed
Barn Swallow	<i>Hirundo rustica</i>	10 none observed
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	2 none observed
Crested Myna	<i>Acridotheres cristatellus</i>	26 none observed
Black-collared Starling	<i>Graculipica nigricollis</i>	17 none observed
Scaly-breasted Munia	<i>Lonchura punctulata</i>	2 none observed
White Wagtail	<i>Motacilla alba</i>	3 none observed
Total Numbers		54
Total Species		18

October 2015



Chu, W.B. <wb.chu@veolia.com>

Ecological Section of EM&A Report for October 2015 (Operational phase monitoring)

Philip Tang <pthk@aechk.hk>

2 November 2015 at 17:12

To: "Chris C.W. Chan" <chris.chan1@leightonasia.com>, "Chu, W.B." <wb.chu@veolia.com>

Cc: Mike Leven <mrl@aechk.hk>, David Stanton <djs@aechk.hk>

Dear WB,

Please see below for the text to be integrated onto the Monthly EMA Report (Operational Phase) for October 2015. I have also attached the data from the bimonthly bird survey of the Middle Lagoon.

A single monitoring visit was conducted on 22nd October 2015 to assess the measures in place to minimise the disturbance impact to wildlife. The 3m high hoarding to reduce disturbance impact of human activities on adjacent areas (namely the Middle Lagoon and other natural habitats) remains in place. No observations of disturbance through construction operations to wildlife on adjacent habitats were made during this and the other monitoring checks conducted during this period.

Monthly monitoring of avifauna and their notable behavior, such as breeding activities in the Middle Lagoon, was conducted on 22nd October 2015. The Monitoring Area included the whole Middle Lagoon with particular focus on the areas in water close to the Sludge Treatment Facility). All birds seen and heard were identified and counted. Any signs of breeding (e.g. nests, recently fledged juveniles) of birds (e.g. Little Grebe) were also recorded. The coverage of water and PFA filling activities in the Middle Lagoon as well as construction activities were also recorded as reference information.

The list of bird surveys recorded from the survey conducted on 22nd October 2015 can be seen in Table 4.7. On that date, water coverage in the Middle Lagoon (in the unfilled section of the Lagoon) was 5%. No PFA filling activities were recorded in the Middle Lagoon; much of the former lagoon has already been raised up to bund level. Three Little Grebe was recorded in the remaining sections of the Middle Lagoon, which have not been filled.

Table 4.7 Bird Species observed during Monthly Monitoring Surveys in October 2015.

Regards,

Philip Tang

Ecologist, AEC Ltd.

22-Oct-15

Water levels

5%

Middle Lagoon

Breeding activity

Little Grebe	<i>Tachybaptus ruficollis</i>	3 none observed
Little Egret	<i>Egretta garzetta</i>	1 none observed
Chinese Pond Heron	<i>Ardeola bacchus</i>	2 none observed
Green Sandpiper	<i>Tringa ochropus</i>	1 none observed
Spotted Dove	<i>Spilopelia chinensis</i>	5 none observed
Black Drongo	<i>Dicrurus macrocercus</i>	2 none observed
Chinese Bulbul	<i>Pycnonotus sinensis</i>	3 none observed
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1 none observed
Crested Myna	<i>Acridotheres cristatellus</i>	13 none observed
Black-collared Starling	<i>Graculipica nigricollis</i>	3 none observed
Scaly-breasted Munia	<i>Lonchura punctulata</i>	6 none observed
White Wagtail	<i>Motacilla alba</i>	1 none observed
Total Numbers		41
Total Species		12

December 2015



Chu, W.B. <wb.chu@veolia.com>

Ecological Section of EM&A Report for December 2015 (Operational phase monitoring)

Philip Tang <pthk@aechk.hk>

4 January 2016 at 10:50

To: "Chris C.W. Chan" <chris.chan1@leightonasia.com>, "Chu, W.B." <wb.chu@veolia.com>

Cc: Mike Leven <mrl@aechk.hk>, David Stanton <djs@aechk.hk>

Dear WB,

Please see below for the text to be integrated onto the Monthly EMA Report (Operational Phase) for December 2015. I have also attached the data from the bimonthly bird survey of the Middle Lagoon.

A single monitoring visit was conducted on 29th December 2015 to assess the measures in place to minimise the disturbance impact to wildlife. The 3m high hoarding to reduce disturbance impact of human activities on adjacent areas (namely the Middle Lagoon and other natural habitats) remains in place. No observations of disturbance through construction operations to wildlife on adjacent habitats were made during this and the other monitoring checks conducted during this period.

Bi-monthly monitoring of avifauna and their notable behavior, such as breeding activities in the Middle Lagoon, was conducted on 29th December 2015. The Monitoring Area included the whole Middle Lagoon with particular focus on the areas in water close to the Sludge Treatment Facility). All birds seen and heard were identified and counted. Any signs of breeding (e.g. nests, recently fledged juveniles) of birds (e.g. Little Grebe) were also recorded. The coverage of water and PFA filling activities in the Middle Lagoon as well as construction activities were also recorded as reference information.

The list of bird surveys recorded from the survey conducted on 29th December 2015 can be seen in Table 4.7. On that date, water coverage in the Middle Lagoon (in the unfilled section of the Lagoon) was 0%. No PFA filling activities were recorded in the Middle Lagoon; much of the former lagoon has already been raised up to bund level. Three Little Grebe was recorded in the remaining sections of the Middle Lagoon, which have not been filled.

Table 4.7 Bird Species observed during Monthly Monitoring Surveys in December 2015.

Regards,

Philip Tang

Ecologist, AEC Ltd.

29-Dec-15

Water levels

0%

Middle Lagoon

Breeding activity

Spotted Dove	<i>Spilopelia chinensis</i>	2 none observed
Chinese Bulbul	<i>Pycnonotus sinensis</i>	1 none observed
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1 none observed
Crested Myna	<i>Acridotheres cristatellus</i>	23 none observed
Black-collared Starling	<i>Graculipica nigricollis</i>	1 none observed
Scaly-breasted Munia	<i>Lonchura punctulata</i>	3 none observed
White Wagtail	<i>Motacilla alba</i>	2 none observed
Stejneger's Stonechat	<i>Saxicola stejnegeri</i>	1 none observed
Black Drongo	<i>Dicrurus macrocercus</i>	1 none observed
Barn Swallow	<i>Hirundo rustica</i>	2 none observed
Eurasian Tree Sparrow	<i>Passer montanus</i>	5 none observed
Black Kite	<i>Milvus migrans</i>	3 none observed

Total Numbers	45
Total Species	12

February 2016



Chu, W.B. <wb.chu@veolia.com>

Ecological Section of EM&A Report for February 2016 (Operational phase monitoring)

Philip Tang <pthk@aechk.hk>

26 February 2016 at 15:50

To: "Chris C.W. Chan" <chris.chan1@leightonasia.com>, "Chu, W.B." <wb.chu@veolia.com>, Alvin Cheung <alvin.cheung@veolia.com>, Virgil Ho <virgil.ho@veolia.com>

Cc: Mike Leven <mrl@aechk.hk>, David Stanton <djs@aechk.hk>

Dear WB,

Please see below for the text to be integrated onto the Monthly EMA Report (Operational Phase) for February 2016. I have also attached the data from the bimonthly bird survey of the Middle Lagoon.

A single monitoring visit was conducted on 23rd February 2016 to assess the measures in place to minimise the disturbance impact to wildlife. The 3m high hoarding to reduce disturbance impact of human activities on adjacent areas (namely the Middle Lagoon and other natural habitats) remains in place. No observations of disturbance through construction operations to wildlife on adjacent habitats were made during this and the other monitoring checks conducted during this period.

Bi-monthly monitoring of avifauna and their notable behavior, such as breeding activities in the Middle Lagoon, was conducted on 23rd February 2016. The Monitoring Area included the whole Middle Lagoon with particular focus on the areas in water close to the Sludge Treatment Facility). All birds seen and heard were identified and counted. Any signs of breeding (e.g. nests, recently fledged juveniles) of birds (e.g. Little Grebe) were also recorded. The coverage of water and PFA filling activities in the Middle Lagoon as well as construction activities were also recorded as reference information.

The list of bird surveys recorded from the survey conducted on 23rd February 2016 can be seen in Table 4.7. On that date, water coverage in the Middle Lagoon (in the unfilled section of the Lagoon) was 0%. No PFA filling activities were recorded in the Middle Lagoon; much of the former lagoon has already been raised up to bund level. Three Little Grebe was recorded in the remaining sections of the Middle Lagoon, which have not been filled.

Table 4.7 Bird Species observed during Monthly Monitoring Surveys in February 2016.

Regards,

Philip Tang

Ecologist, AEC Ltd.

23-Feb-16

Water levels

0%

Middle Lagoon

Breeding activity

Spotted Dove	<i>Spilopelia chinensis</i>	2 none observed
Chinese Bulbul	<i>Pycnonotus sinensis</i>	1 none observed
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	1 none observed
Crested Myna	<i>Acridotheres cristatellus</i>	12 none observed
Little Bunting	<i>Emberiza pusilla</i>	6 none observed
Olive-backed Pipit	<i>Anthus hodgsoni</i>	2 none observed
Stejneger's Stonechat	<i>Saxicola stejnegeri</i>	1 none observed
Barn Swallow	<i>Hirundo rustica</i>	3 none observed
Plain Prinia	<i>Prinia inornata</i>	3 none observed
Daurain Redstart	<i>Phoenicurus aureoreus</i>	1 none observed
Black Kite	<i>Milvus migrans</i>	5 none observed

Total Numbers	37
Total Species	11

April 2016



Chu, W.B. <wb.chu@veolia.com>

Ecological Section of EM&A Report for April 2016 (Operational phase monitoring)

Philip Tang <pthk@aechk.hk>

25 April 2016 at 16:15

To: "Chris C.W. Chan" <chris.chan1@leightonasia.com>, "Chu, W.B." <wb.chu@veolia.com>, Alvin Cheung <alvin.cheung@veolia.com>, Virgil Ho <virgil.ho@veolia.com>

Cc: Mike Leven <mrl@aechk.hk>, David Stanton <djs@aechk.hk>

Dear WB,

Please see below for the text to be integrated onto the Monthly EMA Report (Operational Phase) for April 2016. I have also attached the data from the bimonthly bird survey of the Middle Lagoon.

A single monitoring visit was conducted on 18th April 2016 to assess the measures in place to minimise the disturbance impact to wildlife. The 3m high hoarding to reduce disturbance impact of human activities on adjacent areas (namely the Middle Lagoon and other natural habitats) remains in place. No observations of disturbance through construction operations to wildlife on adjacent habitats were made during this and the other monitoring checks conducted during this period.

Bi-monthly monitoring of avifauna and their notable behavior, such as breeding activities in the Middle Lagoon, was conducted on 18th April 2016. The Monitoring Area included the whole Middle Lagoon with particular focus on the areas in water close to the Sludge Treatment Facility). All birds seen and heard were identified and counted. Any signs of breeding (e.g. nests, recently fledged juveniles) of birds (e.g. Little Grebe) were also recorded. The coverage of water and PFA filling activities in the Middle Lagoon as well as construction activities were also recorded as reference information.

The list of bird recorded from the survey conducted on 18th April 2016 can be seen in Table 4.7. On that date, water coverage in the Middle Lagoon (in the unfilled section of the Lagoon) was 40%. No PFA filling activities were recorded in the Middle Lagoon; much of the former lagoon has already been raised up to bund level. No Little Grebe was recorded in the remaining sections of the Middle Lagoon, which have not been filled.

Table 4.7 Bird Species observed during Monthly Monitoring Surveys in April 2016.

Regards,

Philip Tang

Ecologist, AEC Ltd.

18-Apr-16

Water levels

40%

Middle Lagoon

Breeding activity

Masked Laughingthrush	<i>Garrulax perspicillatus</i>	2 none observed
Long-tailed Shrike	<i>Lanius schach</i>	2 none observed
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	5 none observed
Crested Myna	<i>Acridotheres cristatellus</i>	9 none observed
White-shouldered Starling	<i>Sturnia sinensis</i>	2 none observed
Asian Koel	<i>Eudynamys scolopaceus</i>	1 none observed
Barn Swallow	<i>Hirundo rustica</i>	2 none observed
Plain Prinia	<i>Prinia inornata</i>	6 none observed
Black-headed Bunting	<i>Emberiza melanocephala</i>	4 none observed

Total Numbers

33

Total Species

9