



MALAYSIA

Warta Kerajaan

SERI PADUKA BAGINDA

DITERBITKAN DENGAN KUASA

HIS MAJESTY'S GOVERNMENT GAZETTE

PUBLISHED BY AUTHORITY

Jil. 53
No. 25

10hb Disember 2009

*TAMBAHAN No. 140
PERUNDANGAN (A)*

P.U. (A) 432.

AKTA KUALITI ALAM SEKELILING 1974

PERATURAN-PERATURAN KUALITI ALAM SEKELILING
(KUMBAHAN) 2009

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JADUAL PERTAMA

JADUAL KEDUA

JADUAL KETIGA

JADUAL KEEMPAT

JADUAL KELIMA

JADUAL KEENAM

JADUAL KETUJUH

AKTA KUALITI ALAM SEKELILING 1974

PERATURAN-PERATURAN KUALITI ALAM SEKELILING
(KUMBAHAN) 2009

PADA menjalankan kuasa yang diberikan oleh seksyen 21, 24, 25 dan 51 Akta Kualiti Alam Sekeliling 1974 [*Akta 127*], Menteri setelah berunding dengan Majlis Kualiti Alam Sekeliling, membuat peraturan-peraturan yang berikut:

Nama

1. Peraturan-Peraturan ini bolehlah dinamakan **Peraturan-Peraturan Kualiti Alam Sekeliling (Kumbahan) 2009**.

Tafsiran

2. (1) Dalam Peraturan-Peraturan ini—

“enap cemar” ertinya apa-apa enapan zarah daripada sesuatu cecair, termasuk enapan yang terhasil daripada pengolohan fizikal, kimia, biologi atau pengolohan kumbahan yang lain;

“jurutera profesional” mempunyai erti yang sama seperti yang diberikan kepadanya dalam Akta Pendaftaran Jurutera 1967 [*Akta 138*];

“kumbahan” ertinya apa-apa pembuangan sisa cecair atau air buangan yang mengandungi jirim manusia, haiwan, domestik, atau zarah ampaian atau dalam keadaan larut, dan termasuk cecair yang mengandungi bahan kimia dalam keadaan larut sama ada dalam bentuk mentah, terolah atau separa terolah;

“lesen” ertinya lesen yang disebut dalam peraturan 8 menurut subseksyen 25(1) Akta;

“parameter” ertinya apa-apa faktor yang ditunjukkan dalam ruang pertama Jadual Kedua;

“pegawai diberi kuasa” ertinya mana-mana pegawai yang dilantik di bawah seksyen 3 Akta atau mana-mana pegawai lain yang kepadanya Ketua Pengarah telah mewakilkan kuasanya di bawah seksyen 49 Akta;

“pencairan” ertinya apa-apa proses yang menjadikan kumbahan kurang pekat dengan menambahkan air atau cecair lain dari sumber luar selain cecair atau bahan yang digunakan untuk pengolohan kumbahan itu;

“pemantauan prestasi” ertinya pemantauan rutin ciri-ciri tertentu bagi menyediakan suatu petunjuk bahawa proses pengolohan adalah berfungsi dan berupaya mengolah kumbahan;

“bilangan penduduk setara” ertinya setara dari segi bilangan penduduk tetap yang berubah atau bilangan penduduk yang tinggal sementara atau aktiviti lain, sebagai contoh perindustrian atau perdagangan yang menyumbang kepada aliran sistem pengolohan kumbahan;

“sistem pengolahan kumbahan” ertinya apa-apa kemudahan yang direka bentuk dan dibina bertujuan untuk mengurangkan potensi kumbahan yang menyebabkan pencemaran.

(2) Perkataan dan ungkapan yang tidak ditakrifkan di dalam Peraturan-Peraturan ini hendaklah mempunyai pengertian yang sama dengan pengertian yang diberikan kepadanya dalam Akta.

Pemakaian

3. Peraturan-Peraturan ini hendaklah terpakai kepada premis yang membuang kumbahan ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia, selain mana-mana pembangunan perumahan atau perdagangan atau kedua-duanya yang mempunyai bilangan penduduk setara yang kurang daripada seratus lima puluh.

Pemberitahuan bagi punca baru pembuangan atau pelepasan kumbahan

4. (1) Tiada seorang pun boleh, tanpa pemberitahuan bertulis terlebih dahulu kepada Ketua Pengarah, membuang atau melepaskan atau membenarkan pembuangan atau pelepasan kumbahan ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia.

(2) Pemberitahuan bertulis kepada Ketua Pengarah yang disebut dalam subperaturan (1) hendaklah dibuat dalam borang yang dinyatakan dalam Jadual Pertama.

Penyediaan dan pengendalian yang betul sistem pengolahan kumbahan

5. (1) Seseorang pemunya atau penghuni mana-mana premis hendaklah mengendalikan dan menyenggara sistem pengolahan kumbahan mengikut amalan kejuruteraan yang baik bagi pengolahan kumbahan dan memastikan bahawa semua komponen sistem pengolahan dalam keadaan yang baik.

(2) Dalam peraturan ini, “amalan kejuruteraan yang baik” ertinya cara yang dengannya suatu sistem pengolahan kumbahan dikendalikan yang ciri-ciri pengendalian disenggarakan dalam nilai julat normal yang biasa digunakan bagi pengolahan kumbahan.

Orang yang berwibawa

6. (1) Pengendalian sistem pengolahan kumbahan hendaklah diawasi oleh orang yang berwibawa.

(2) Orang yang berwibawa ialah seseorang yang telah diperakui oleh Ketua Pengarah bahawa dia sewajarnya layak untuk mengawasi pengendalian sistem pengolahan kumbahan.

(3) Seseorang pemunya atau penghuni mana-mana premis hendaklah memastikan bahawa orang yang berwibawa bertugas pada bila-bila masa sistem pengolahan kumbahan sedang beroperasi.

Syarat-syarat yang boleh diterima bagi pembuangan kumbahan

7. (1) Tiada seorang pun boleh membuang kumbahan yang mengandungi bahan yang mempunyai kepekatan melebihi had—

- (a) Standard A, sebagaimana yang ditunjukkan dalam perenggan (i) Jadual Kedua, bagi sistem pengolahan kumbahan baru yang membuang ke dalam mana-mana perairan pedalaman dalam kawasan tadahan sebagaimana yang dinyatakan dalam Jadual Ketiga;
- (b) Standard B, sebagaimana yang ditunjukkan dalam perenggan (i) Jadual Kedua, bagi sistem pengolahan kumbahan baru yang membuang ke dalam mana-mana perairan pedalaman yang lain atau perairan Malaysia;
- (c) Standard A, sebagaimana yang ditunjukkan dalam perenggan (ii) Jadual Kedua, bagi sistem pengolahan kumbahan yang ada yang membuang ke dalam mana-mana perairan pedalaman dalam kawasan tadahan sebagaimana yang dinyatakan dalam Jadual Ketiga;
- (d) Standard B, sebagaimana yang ditunjukkan dalam perenggan (ii) Jadual Kedua, bagi sistem pengolahan kumbahan yang ada yang membuang ke dalam mana-mana perairan pedalaman yang lain atau perairan Malaysia;
- (e) Standard A, sebagaimana yang ditunjukkan dalam perenggan (iii) Jadual Kedua, bagi sistem pengolahan kumbahan yang ada yang membuang ke dalam mana-mana perairan pedalaman dalam kawasan tadahan sebagaimana yang dinyatakan dalam Jadual Ketiga; atau
- (f) Standard B, sebagaimana yang ditunjukkan dalam perenggan (iii) Jadual Kedua, bagi sistem pengolahan kumbahan yang ada yang membuang ke dalam mana-mana perairan pedalaman yang lain atau perairan Malaysia.

(2) Seseorang pemunya atau penghuni premis hendaklah mengemukakan suatu program kepada Ketua Pengarah dan melaksanakan program itu bagi memastikan semua sistem pengolahan kumbahan yang ada, kecuali tangki septik komunal dan tangki imhoff—

- (a) yang membuang kumbahan ke dalam mana-mana perairan pedalaman dalam kawasan tadahan sebagaimana yang ditetapkan dalam Jadual Ketiga, mematuhi Standard A sebagaimana yang ditunjukkan dalam perenggan (i) Jadual Kedua pada atau sebelum 31 Disember 2016; dan

(b) yang membuang kumbahan ke dalam mana-mana perairan pedalaman yang lain atau perairan Malaysia, mematuhi Standard B sebagaimana yang ditunjukkan dalam perenggan (i) Jadual Kedua pada atau sebelum 31 Disember 2019.

(3) Dalam peraturan ini—

(a) “sistem pengolahan kumbahan baru” ertinya suatu sistem pengolahan kumbahan yang dibina selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini; dan

(b) “sistem pengolahan kumbahan yang ada” ertinya suatu sistem pengolahan kumbahan yang diluluskan antara tempoh selepas Januari 2009, sehingga sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini.

Lesen untuk melanggar syarat-syarat yang boleh diterima bagi pembuangan kumbahan

8. (1) Seseorang pemunya atau penghuni premis boleh memohon untuk lesen di bawah subseksyen 25(1) Akta untuk melanggar syarat-syarat yang boleh terima bagi pembuangan kumbahan sebagaimana yang dinyatakan dalam peraturan 5.

(2) Permohonan bagi lesen di bawah subperaturan (1) hendaklah dibuat mengikut tatacara sebagaimana yang dinyatakan dalam Peraturan-Peraturan Kualiti Alam Sekeliling (Pelesenan) 1977 [*P.U. (A) 198/1977*] dan hendaklah disertakan dengan—

(a) laporan mengenai kajian penyifatan kumbahan; dan

(b) fi lesen sebagaimana yang dinyatakan dalam peraturan 24.

Kaedah penganalisan dan pensampelan kumbahan

9. (1) Seseorang pegawai diberi kuasa boleh menjalankan analisis kumbahan *in-situ* atau *ex-situ* menggunakan mana-mana instrumen yang diluluskan oleh Ketua Pengarah.

(2) Penganalisan kumbahan yang dibuang atau dilepaskan ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia hendaklah dijalankan mengikut mana-mana kaedah yang terkandung dalam penyiaran sebagaimana yang dinyatakan dalam Jadual Keempat.

(3) Analisis kumbahan yang disebut dalam peraturan ini hendaklah berasaskan sampel cekau.

(4) Dalam peraturan ini—

- (a) “analisis *in-situ*” ertinya analisis yang dijalankan ke atas sampel kumbahan yang tidak dibawa keluar dari lokasinya atau dijalankan di tapak di mana sampel itu telah diambil;
- (b) “analisis *ex-situ*” ertinya analisis yang dijalankan ke atas sampel kumbahan yang telah dikeluarkan dari lokasinya dan dijalankan di tapak yang berlainan daripada tapak di mana sampel itu telah diambil; dan
- (c) “sampel cekau” ertinya sampel individu diskret yang diambil dalam tempoh masa kurang daripada lima belas minit.

Pemantauan pembuangan kumbahan

10. (1) Seseorang pemunya atau penghuni sesuatu premis yang membuang kumbahan ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia hendaklah, dengan perbelanjaan sendiri—

- (a) memantau kepekatan parameter yang dinyatakan dalam ruang pertama Jadual Kedua; dan
- (b) memasang meter kadar-aliran, kelengkapan pensampelan dan kelengkapan perekodan.

(2) Pemunya atau penghuni premis itu hendaklah menyenggara suatu rekod data pemantauan pembuangan kumbahan dalam borang sebagaimana yang dinyatakan dalam Jadual Kedua.

(3) Pemunya atau penghuni premis itu hendaklah mengemukakan rekod pertama data pemantauan pembuangan kumbahan kepada Ketua Pengarah dalam masa tiga puluh hari selepas permulaan kuat kuasa Peraturan-Peraturan ini dan laporan yang berikutnya hendaklah dikemukakan dalam tiga puluh hari selepas berakhirnya bulan kalendar bagi laporan bulan terdahulu.

(4) Rekod data pemantauan pembuangan kumbahan hendaklah dijadikan tersedia untuk pemeriksaan oleh mana-mana pegawai diberi kuasa.

Petunjuk pembuangan kumbahan

11. (1) Petunjuk pembuangan kumbahan hendaklah mematuhi spesifikasi sebagaimana yang dinyatakan dalam Jadual Keenam dan hendaklah ditandakan dengan jelas oleh pemunya atau penghuni premis di atas pelan susun atur dan lukisan kejuruteraan yang diprakerui oleh jurutera profesional.

(2) Seseorang pemunya atau penghuni premis itu hendaklah mengemukakan kepada Ketua Pengarah pelan susun atur dan lukisan kejuruteraan yang disebut dalam subperaturan (1) dalam masa tiga puluh hari sebelum mula berkuat kuasanya pengendalian di premis.

(3) Jika pemunya atau penghuni premis itu bercadang untuk membuat apa-apa pengubahan atau perubahan kepada lokasi atau kedudukan petunjuk pembuangan atau reka bentuk saluran keluar di petunjuk pembuangan kumbahan, dia hendaklah memaklumkan Ketua Pengarah dalam masa tiga puluh hari sebelum membuat apa-apa pengubahan atau perubahan.

Larangan terhadap pembuangan kumbahan melalui pintasan

12. (1) Tiada seorang pun boleh membuang atau menyebabkan atau membenarkan kumbahan dibuang ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia melalui pintasan.

(2) Dalam peraturan ini, “pintasan” ertinya apa-apa lencongan pembuangan kumbahan secara sengaja daripada mana-mana bahagian sistem pengolahan kumbahan.

Tumpahan atau pembuangan yang tidak sengaja kumbahan

13. (1) Dalam keadaan terjadi apa-apa tumpahan atau pembuangan kumbahan yang tidak sengaja dari mana-mana premis, sama ada secara terus atau tidak terus dapat masuk atau mungkin masuk ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia, pemunya atau penghuni premis itu hendaklah dengan segera dan tidak lebih daripada enam jam daripada masa berlakunya kejadian itu memaklumkan Ketua Pengarah mengenai kejadian itu.

(2) Seseorang pemunya atau penghuni premis itu hendaklah, setakat yang munasabah, membendung, membersihkan atau mengurangkan tumpahan atau pembuangan kumbahan yang tidak sengaja itu mengikut cara yang memuaskan hati Ketua Pengarah.

(3) Ketua Pengarah boleh dalam apa-apa kes tertentu, jika dia fikirkan perlu untuk berbuat demikian, menyatakan cara tumpahan atau pembuangan yang tidak sengaja dibendung, dibersihkan atau dikurangkan dan pemunya atau penghuni premis itu hendaklah mematuhi spesifikasi itu.

(4) Ketua Pengarah hendaklah menentukan apa-apa kerosakan yang disebabkan oleh apa-apa tumpahan atau pembuangan yang tidak sengaja dan boleh mendapatkan semula semua kos dan perbelanjaan daripada pemunya atau penghuni premis itu.

(5) Jika Ketua Pengarah mengaku janji untuk membersihkan atau mengurangkan tumpahan atau pembuangan yang tidak sengaja itu, dia hendaklah menentukan kos dan perbelanjaan penuh yang ditanggung dan boleh mendapatkan semula kos dan perbelanjaan itu daripada pemunya atau penghuni premis itu mengikut peruntukan seksyen 47 Akta.

Larangan terhadap pembuangan enap cemar ke dalam perairan pedalaman atau perairan Malaysia

14. Tiada seorang pun boleh membuang atau menyebabkan atau membenarkan pembuangan enap cemar yang dihasilkan daripada sistem pengolahan kumbahan ke dalam mana-mana perairan pedalaman atau perairan Malaysia.

Sekatan pelupusan enap cemar ke atas tanah

15. Tiada seorang pun boleh membuang, atau menyebabkan atau membenarkan pelupusan, enap cemar yang dihasilkan daripada mana-mana sistem pengolahan kumbahan ke atas atau ke dalam tanah atau permukaan tanah tanpa kebenaran bertulis daripada Ketua Pengarah terlebih dahulu.

Permohonan untuk melupuskan enap cemar ke atas tanah

16. Permohonan untuk kebenaran bertulis daripada Ketua Pengarah di bawah peraturan 17 hendaklah disertakan dengan fi yang ditetapkan sebanyak lima ratus ringgit.

Melaporkan perubahan dalam maklumat yang diberi bagi maksud permohonan lesen

17. Seseorang pemohon bagi suatu lesen atau bagi membarui atau memindah milik lesen itu hendaklah, dalam masa tujuh hari daripada berlakunya apa-apa perubahan material dalam apa-apa maklumat yang telah diberikan dalam permohonannya atau yang telah diberikan secara bertulis menurut permintaan oleh Ketua Pengarah di bawah subseksyen 11(2) Akta, memberikan kepada Ketua Pengarah suatu laporan secara bertulis mengenai perubahan itu.

Pempameran lesen

18. Pemegang sesuatu lesen hendaklah mempamerkan lesennya, bersama-sama dengan tiap-tiap dokumen yang menjadi sebahagian daripada lesen itu, di suatu tempat yang mudah dilihat dalam bangunan utama premisnya.

Penerusan syarat-syarat dan sekatan yang ada sekiranya berlaku perubahan dalam penghunian

19. Jika seseorang menjadi penghuni premis berlesen menggantikan orang lain yang memegang lesen yang belum habis tempohnya berkenaan dengan premis itu, maka—

- (a) bagi tempoh empat belas hari selepas perubahan dalam penghunian itu; atau

- (b) jika penghuni baru itu memohon dalam tempoh yang dinyatakan dalam perenggan (a) untuk memindah milik lesen itu kepadanya, bagi tempoh daripada perubahan dalam penghunian sehingga penentuan muktamad dibuat mengenai permohonannya,

syarat-syarat dan sekatan lesen itu adalah mengikat penghuni baru itu dan hendaklah dipatuhi olehnya, tanpa mengira dia masih belum menjadi pemegang lesen atau lesen itu mungkin, dalam tempoh sebagaimana yang dinyatakan dalam perenggan (a) atau (b), mengikut mana-mana yang berkenaan, telah habis tempohnya.

Penyenggaraan rekod

20. (1) Seseorang pemunya atau penghuni premis yang dilengkapi dengan sistem pengolahan kumbahan hendaklah menyenggara rekod pengendalian, penyenggaraan dan pemantauan prestasi sistem pengolahan kumbahan.

(2) Rekod yang disenggarakan di bawah subperaturan (1) hendaklah dijadikan tersedia untuk pemeriksaan oleh mana-mana pegawai diberi kuasa.

Latihan kakitangan

21. (1) Seseorang pemunya atau penghuni mana-mana premis yang dilengkapi dengan sistem pengolahan kumbahan—

- (a) hendaklah memastikan bahawa kakitangannya menghadiri latihan mengenai keperluan alam sekitar dan amalan yang baik dalam pengendalian dan penyenggaraan sistem pengolahan kumbahan sebelum mereka mula bekerja;
- (b) hendaklah memastikan bahawa latihan untuk kakitangannya termasuklah latihan semula mengenai pengemaskinian kehendak dan tatacara baru, yang dikaji semula dan yang ada; dan
- (c) hendaklah menyenggara rekod latihan yang hendaklah termasuk tarikh latihan, nama dan jawatan kakitangan, penyedia latihan dan perihalan ringkas kandungan latihan.

(2) Rekod di bawah perenggan (1)(c) hendaklah dikemukakan kepada Ketua Pengarah apabila diminta dan hendaklah dijadikan tersedia untuk pemeriksaan oleh mana-mana pegawai diberi kuasa.

Penyediaan untuk pemeriksaan

22. Seseorang pemunya atau penghuni sesuatu premis yang membuang kumbahan ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia hendaklah, berkenaan dengan pembuangan itu, memasang ruang pemeriksaan, meter kadar-aliran, kelengkapan pensampelan, kelengkapan pemantauan, dan kelengkapan pengukuran dan perekodan.

Pemunya atau penghuni hendaklah memberikan bantuan semasa pemeriksaan

23. Seseorang pemunya atau penghuni mana-mana premis hendaklah menyediakan Ketua Pengarah atau mana-mana pegawai diberi kuasa tiap-tiap bantuan yang munasabah dan kemudahan tersedia di premis, termasuklah buruh, kelengkapan, alat dan instrumen yang mungkin dikehendaki oleh Ketua Pengarah atau pegawai diberi kuasa bagi maksud mengambil apa-apa tindakan.

Fi lesen

24. (1) Fi bagi sesuatu lesen, termasuklah pembaharuan dan pindah milik lesen, adalah lima ratus ringgit dan penambahan fi lesen berkaitan dengan kumbahan yang dikira mengikut kaedah sebagaimana yang dinyatakan dalam Jadual Ketujuh.

(2) Fi bagi sesuatu lesen termasuklah pembaharuan dan pindah milik lesen sebanyak lima ratus ringgit hendaklah disertakan dengan permohonan dan tidak boleh dikembalikan.

(3) Fi lesen berkaitan dengan kumbahan tidak perlu dibayar sehingga diminta.

Penepian fi

25. (1) Jika Ketua Pengarah berpuas hati bahawa penyelidikan mengenai pengolahan atau pelupusan kumbahan yang sedang atau akan dijalankan di premis yang berlesen mungkin memberi faedah bagi perlindungan alam sekitar, dia boleh dengan kelulusan Menteri, mengenyepikan sepenuhnya, atau sebahagiannya, mana-mana fi yang berkaitan dengan kumbahan yang kena dibayar menurut peraturan 24.

(2) Dalam memutuskan takat penepian itu, Ketua Pengarah adalah dipandu oleh pertimbangan muatan pencemaran kumbahan yang dibuang atau yang akan dibuang.

Penalti

26. Mana-mana orang yang melanggar peraturan 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22 dan 23 melakukan suatu kesalahan dan boleh didenda tidak melebihi satu ratus ribu ringgit atau dipenjarakan selama tempoh tidak melebihi lima tahun atau kedua-duanya dan denda selanjutnya tidak melebihi satu ribu ringgit sehari bagi tiap-tiap hari kesalahan itu diteruskan selepas notis oleh Ketua Pengarah menghendakinya untuk memberhentikan perbuatan yang dinyatakan dalam notis itu telah diserahkan kepadanya.

Peruntukan pembatalan, peralihan dan kecualian

27. (1) Peraturan-Peraturan Kualiti Alam Sekeliling (Kumbahan dan Efluen-Efluen Perindustrian) 1979 [*P.U. (A) 12/1979*] dibatalkan (selepas ini disebut sebagai “Peraturan-Peraturan yang dibatalkan”).

(2) Apa-apa permohonan yang dibuat di bawah Peraturan-Peraturan yang dibatalkan bagi suatu lesen untuk melanggar syarat-syarat yang boleh diterima, pembaharuan atau pindah milik lesen atau kebenaran bertulis yang belum selesai sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini hendaklah, selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini, diperlakukan di bawah Peraturan-Peraturan yang dibatalkan itu dan bagi maksud itu hendaklah dianggap seolah-olah Peraturan-Peraturan ini tidak dibuat.

(3) Semua lesen yang dikeluarkan atau kebenaran bertulis yang diberikan di bawah Peraturan-Peraturan yang dibatalkan hendaklah, selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini, terus kekal berkuat kuasa sepenuhnya sehingga lesen itu habis tempoh, dipinda, digantung atau dibatalkan, atau kebenaran bertulis itu habis tempoh atau dibatalkan di bawah Peraturan-Peraturan yang dibatalkan dan bagi maksud itu hendaklah dianggap seolah-olah Peraturan-Peraturan ini tidak dibuat.

(4) Peruntukan Peraturan-Peraturan yang dibatalkan yang berhubungan dengan syarat-syarat yang boleh diterima bagi pembuangan kumbahan hendaklah terus terpakai sehingga dua belas bulan selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini jika pada tarikh permulaan kuat kuasa Peraturan-Peraturan ini—

- (a) apa-apa kerja ke atas apa-apa pembinaan apa-apa sistem pengolahan kumbahan yang belum dimulakan dalam dua belas bulan daripada tarikh kebenaran bertulis dikeluarkan untuk pembinaan itu sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini;
- (b) apa-apa kerja ke atas apa-apa pembinaan apa-apa sistem pengolahan kumbahan telah dimulakan tetapi belum siap dibina sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini; atau
- (c) apa-apa kerja ke atas apa-apa pembinaan apa-apa sistem pengolahan kumbahan yang telah siap dibina tetapi belum mula beroperasi sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini.

(5) Jika pada tarikh permulaan kuat kuasa Peraturan-Peraturan ini, mana-mana premis yang membuang kumbahan ke dalam mana-mana perairan pedalaman yang tidak dinyatakan sebagai kawasan tadahan di bawah Peraturan-Peraturan yang dibatalkan sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini, peruntukan Peraturan-Peraturan yang dibatalkan yang berhubungan dengan syarat-syarat yang boleh diterima bagi pembuangan kumbahan hendaklah terus terpakai kepada pembuangan kumbahan itu sehingga dua belas bulan selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini.

(6) Walau apa pun yang dinyatakan dalam Peraturan-Peraturan ini, apabila tarikh permulaan kuat kuasa Peraturan-Peraturan ini, berhubung dengan pembuangan kumbahan daripada mana-mana sistem pengolahan kumbahan, selain tangki septik komunal dan tangki imhoff—

- (a) peruntukan Peraturan-Peraturan yang dibatalkan yang berhubung dengan syarat-syarat yang boleh diterima bagi pembuangan kumbahan sebagaimana yang dinyatakan dalam perenggan (ii) dan (iii) Jadual Kedua bagi Standard A hendaklah terpakai sehingga 31 Disember 2016; dan
- (b) peruntukan Peraturan-Peraturan yang dibatalkan yang berhubung dengan syarat-syarat yang boleh diterima pembuangan kumbahan sebagaimana yang dinyatakan dalam perenggan (ii) dan (iv) Jadual Kedua bagi Standard B hendaklah terpakai sehingga 31 Disember 2019.

(7) Apa-apa prosiding, sama ada sivil atau jenayah, yang dimulakan di bawah Peraturan-Peraturan yang dibatalkan dan masih belum selesai pada tarikh permulaan kuat kuasa Peraturan-Peraturan ini hendaklah, pada tarikh permulaan kuat kuasa Peraturan-Peraturan ini, diteruskan dan diselesaikan di bawah Peraturan-Peraturan yang dibatalkan dan bagi maksud itu hendaklah dianggap seolah-olah Peraturan-Peraturan ini tidak dibuat.

JADUAL PERTAMA

(Peraturan 4)

PEMBERITAHUAN BAGI PUNCA BARU PEMBUANGAN ATAU PELEPASAN KUMBAHAN

SEKSYEN I

PENGENALAN PREMIS

1. (i) Nama dan alamat premis:.....

.....

Alamat surat menyurat (jika berlainan daripada di atas):

.....

.....

Nombor telefon:Nombor faks:.....

(ii) Nombor rujukan fail Jabatan Alam Sekitar (jika berkenaan):

.....

SEKSYEN II

PERIHALAN PREMIS

2. (i) Perihal premis/projek pembangunan
(Sila tandakan \checkmark dalam kotak yang berkaitan di bawah)

| | | | |
|---|--------------------------|---|--------------------------|
| (a) Perumahan/ Kediaman | <input type="checkbox"/> | (b) Perdagangan | <input type="checkbox"/> |
| (c) Estet perindustrian | <input type="checkbox"/> | (d) Bercampur (perdagangan campur kediaman) | <input type="checkbox"/> |
| (e) Bercampur (industri campur perdagangan) | <input type="checkbox"/> | (f) Bercampur (industri campur kediaman) | <input type="checkbox"/> |
| (g) Hotel | <input type="checkbox"/> | (h) Tempat peranginan | <input type="checkbox"/> |
| (i) Lain-lain | <input type="checkbox"/> | | |

Sila perihalkan:.....
.....

- (ii) Saiz premis/projek pembangunan
(Sila perihalkan saiz premis/projek pembangunan dari segi bilangan penduduk setara dan perihalan lain seperti jumlah unit, jumlah bilik, keluasan tanah dll., mana-mana yang berkenaan)

Bilangan penduduk setara:.....

Jumlah unit:.....

.....

Jumlah bilik:

Keluasan tanah (ekar):.....

Maklumat lain:

.....

.....

SEKSYEN III

MAKLUMAT MENGENAI SISTEM PENGOLAHAN KUMBAHAN

3. (i) Jenis sistem pengolahan
(Sila tandakan \checkmark dalam kotak yang berkaitan di bawah)

| | | | |
|---|--------------------------|-----------------------|--------------------------|
| (a) Sistem Enap Cemar Teraktif Konvensional | <input type="checkbox"/> | (b) Kolam Oksidasi | <input type="checkbox"/> |
| (c) Sistem Enap Cemar Teraktif Pengudaraan Lanjut | <input type="checkbox"/> | (d) Longkang Oksidasi | <input type="checkbox"/> |

- (e) Kontaktor Biologi Berpusing (f) Penapis Meleleh
- (g) Reaktor Berturutan Berkelompok
- (h) Lain-lain

Sila perihalkan:.....

SEKSYEN IV

MAKLUMAT PEMBUANGAN

4. (i) Di manakah kumbahan terolah (iaitu kumbahan terakhir) dibuang?
 (Sila tandakan \checkmark dalam kotak yang berkaitan di bawah)

(a) Saluran air
 Nama saluran air:

(b) Tasik
 Nama tasik:.....

(c) Laut
 Nama laut:.....

(d) Muara
 Nama muara:.....

(e) Lain-lain
 Sila perihalkan:.....

- (ii) Lokasi petunjuk pelepasan

Latitud:..... Longitud:.....

SEKSYEN V

AKUAN

Saya.....dengan ini mengaku bahawa semua maklumat yang diberikan dalam borang ini adalah benar dan betul sepanjang pengetahuan dan kepercayaan saya.

Tandatangan orang yang bertanggungjawab:

.....

Nama:

Jawatan:

Tarikh :

(Capkan meterai atau cap rasmi syarikat)

JADUAL KEDUA

(Peraturan 7)

SYARAT-SYARAT YANG BOLEH DITERIMA BAGI PEMBUANGAN KUMBAHAN
STANDARD A DAN B

(i) Sistem pengolahan kumbahan baru

| Parameter (1) | Unit (2) | Standar | |
|---|-------------|----------|----------|
| | | A (3) | B (4) |
| (a) Suhu | °C | 40 | 40 |
| (b) Nilai pH | - | 6.0-9.0 | 5.5-9.0 |
| (c) BOD ₅ pada 20°C | mg/L | 20 | 50 |
| (d) COD | mg/L | 120 | 200 |
| (e) Pepejal Terampai | mg/L | 50 | 100 |
| (f) Minyak dan Gris | mg/L | 5.0 | 10.0 |
| (g) Nitrogen Ammonia (badan air yang terkepung) | mg/L | 5.0 | 5.0 |
| (h) Nitrogen Ammonia (sungai) | mg/L | 10.0 | 20.0 |
| (i) Nitrogen Nitrat (sungai) | mg/L | 20.0 | 50.0 |
| (j) Nitrogen Nitrat (badan air yang terkepung) | mg/L | 10.0 | 10.0 |
| (k) Fosforus (badan air yang terkepung) | mg/L | 5.0 | 10.0 |

Nota: Standard A terpakai kepada pembuangan ke dalam mana-mana perairan pedalaman dalam kawasan tadahan yang disenaraikan dalam Jadual Ketiga, manakala Standard B terpakai kepada mana-mana perairan pedalaman yang lain atau perairan Malaysia.

(ii) Sistem pengolahan kumbahan sedia ada (diluluskan sebelum Januari 1999)

Kategori ini merujuk kepada semua sistem pengolahan kumbahan yang telah diluluskan sebelum *Guidelines for Developers: Sewerage Treatment Vol. IV, 2nd edition* dan dikuatkuasakan oleh Jabatan Perkhidmatan Pembetulan, Kementerian Perumahan dan Kerajaan Tempatan, bermula Januari 1999. Di bawah ialah syarat-syarat yang boleh diterima bagi pembuangan kumbahan mengikut jenis sistem pengolahan kumbahan:

| Parameter (1) | Unit (2) | Jenis sistem pengolahan kumbahan | | | | | | | | | |
|--------------------------------|-------------|----------------------------------|----------|---------------|----------|-------------------|----------|----------------|-----------|------------------|-----------|
| | | Tangki Septik Komunal | | Tangki Imhoff | | Lagun Pengudaraan | | Kolam Oksidasi | | Sistem Mekanikal | |
| | | A (3) | B (4) | A (5) | B (6) | A (7) | B (8) | A (9) | B (10) | A (11) | B (12) |
| (a) BOD ₅ pada 20°C | mg/L | 200 | 200 | 175 | 175 | 100 | 100 | 120 | 120 | 60 | 60 |
| (b) COD | mg/L | - | - | - | - | 300 | 300 | 360 | 360 | 180 | 240 |
| (c) Pepejal Terampai | mg/L | 180 | 180 | 150 | 150 | 120 | 120 | 150 | 150 | 100 | 120 |
| (d) Minyak dan Gris | mg/L | - | - | - | - | - | - | - | - | 20 | 20 |
| (e) Nitrogen Ammonia | mg/L | - | - | 100 | 100 | 80 | 80 | 70 | 70 | 60 | 60 |

Nota:

1. Standard A terpakai kepada pembuangan ke dalam mana-mana perairan pedalaman dalam kawasan tadahan yang disenaraikan dalam Jadual Ketiga, manakala Standard B terpakai kepada mana-mana perairan pedalaman yang lain atau perairan Malaysia.
2. Standard ini adalah terpakai kepada sistem pengolahan kumbahan yang mungkin telah dibina sebelum 1999 berdasarkan kelulusan yang diberikan oleh agensi lain, selain Jabatan Perkhidmatan Pembetungan, Kementerian Perumahan dan Kerajaan Tempatan.

(iii) **Sistem pengolahan kumbahan yang ada (diluluskan selepas Januari 1999)**

Semua sistem pengolahan kumbahan yang telah diluluskan selepas *Guidelines for Developers: Sewerage Treatment Vol. IV, 2nd edition* dan dikuatkuasakan oleh Jabatan Perkhidmatan Pembetungan, Kementerian Perumahan dan Kerajaan Tempatan, bermula Januari 1999 sehingga tarikh permulaan kuat kuasa Peraturan-Peraturan ini.

| Parameter | Unit | Standard | |
|--------------------------------|------|----------|-----|
| | | A | B |
| (a) BOD ₅ pada 20°C | mg/L | 20 | 50 |
| (b) COD | mg/L | 120 | 200 |
| (c) Pepejal Terampai | mg/L | 50 | 100 |
| (d) Minyak dan Gris | mg/L | 20 | 20 |
| (e) Nitrogen Ammonia | mg/L | 50 | 50 |

Nota: Standard A terpakai kepada pembuangan ke dalam mana-mana perairan pedalaman dalam kawasan tadahan yang disenaraikan dalam Jadual Ketiga, manakala Standard B terpakai kepada mana-mana perairan pedalaman yang lain atau perairan Malaysia.

JADUAL KETIGA

(Peraturan 7)

SENARAI KAWASAN TADAHAN YANG STANDARD A TERPAKAI

1. Kawasan tadahan yang disebut dalam Peraturan-Peraturan ini adalah di kawasan hulu sungai di permukaan atau di bahagian atas permukaan pengambilan pembekalan air, bagi maksud kegunaan manusia termasuk air minuman.
2. Bagi maksud Peraturan-Peraturan ini, pengambilan pembekalan air hendaklah termasuk pengambilan pembekalan air awam yang dinyatakan di bawah:

(1) **Negeri Johor**

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|----------------------------|
| (1) | (2) | (3) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 102° 40' 12" | 2° 39' 29" | Sg. Muar | Segamat |
| 102° 55' 37" | 2° 32' 57" | Sg. Segamat | Segamat |
| 102° 03' 10" | 2° 28' 02" | Sg. Jauseh | Segamat |
| 102° 03' 10" | 2° 28' 02" | Sg. Jauseh | Segamat |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 102° 39' 57" | 2° 25' 29" | Sg. Jementah | Segamat |
| 102° 49' 55" | 2° 21' 01" | Sg. Muar | Muar |
| 102° 47' 11" | 2° 18' 11" | Sg. Muar | Muar |
| 102° 48' 40" | 2° 14' 59" | Sg. Muar | Muar |
| 102° 44' 58" | 2° 12' 04" | Sg. Muar | Muar |
| 102° 44' 03" | 2° 10' 49" | Sg. Muar | Muar |
| 103° 05' 03" | 1° 53' 09" | Sg. Sembrong/ Sg. Bekok Transf | Batu Pahat |
| 103° 32' 24" | 2° 12' 03" | Sg. Kahang | Kluang |
| 103° 26' 55" | 2° 05' 27" | Sg. Kahang | Kluang |
| 103° 40' 14" | 2° 35' 15" | Labong Dam | Mersing |
| 103° 47' 31" | 2° 30' 22" | Conggok Dam | Mersing |
| 103° 39' 22" | 2° 23' 13" | Sg. Lenggor | Mersing |
| 103° 54' 07" | 2° 02' 11" | Sg. Sedili Besar | Mersing |
| 103° 51' 16" | 2° 16' 27" | Bekas Lombong | Mersing |
| 104° 02' 52" | 1° 53' 38" | Sg. Gembut | Kota Tinggi |
| 103° 49' 50" | 1° 49' 52" | Sg. Pelepah | Kota Tinggi |
| 103° 43' 19" | 1° 48' 01" | Sg. Linggiu | Kota Tinggi |
| 103° 40' 05" | 1° 48' 14" | Sg. Sayong | Kota Tinggi |
| 103° 40' 05" | 1° 48' 14" | Sg. Sayong | Kota Tinggi |
| 103° 35' 28" | 1° 51' 28" | Sg. Peggeli | Kota Tinggi |
| 104° 08' 08" | 1° 44' 39" | Sg. Sedili Kecil | Kota Tinggi |
| 104° 12' 13" | 1° 32' 30" | Lebam Dam | Kota Tinggi |
| 103° 46' 58" | 1° 44' 47" | Sg. Johor | Kota Tinggi |
| 103° 27' 09" | 1° 43' 12" | Sg. Pontian Besar | Johor Bahru |
| 103° 54' 43" | 1° 33' 22" | Layang Dam | Johor Bahru |
| 103° 50' 14" | 1° 44' 07" | Sg. Johor | Johor Bahru |
| 103° 21' 54" | 2° 03' 35" | Sg. Sembrong | Kluang |
| 103° 11' 01" | 1° 58' 23" | Sembrong Dam | Kluang |
| 103° 17' 47" | 1° 49' 33" | Sg. Benut | Kluang |
| 103° 03' 10" | 2° 00' 57" | Sg. Bekok Transf | Batu Pahat |
| 104° 03' 12" | 2° 00' 54" | Sg. Bekok Transf | Batu Pahat |
| 103° 05' 57" | 1° 52' 33" | Sg. Sembrong | Batu Pahat |
| 102° 44' 03" | 2° 10' 49" | Sg. Muar | Muar |
| 102° 44' 05" | 2° 10' 48" | Sg. Muar | Muar |
| 102° 44' 05" | 2° 10' 48" | Sg. Muar | Muar |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 102° 34' 56" | 2° 19' 37" | Ledang Dam | Muar |
| 102° 50' 09" | 2° 31' 07" | Sg. Segamat | Segamat |
| 102° 50' 17" | 2° 31' 12" | Sg. Segamat | Segamat |
| 102° 49' 59" | 2° 30' 55" | Sg. Segamat | Segamat |
| 103° 03' 11" | 2° 28' 01" | Sg. Jauseh | Segamat |
| 103° 52' 24" | 1° 44' 42" | Sg. Johor | PUB Singapura |
| 103° 39' 40" | 1° 33' 30" | Sg. Skudai | PUB Singapura |
| 103° 34' 14" | 1° 32' 30" | Pulai Dam | PUB Singapura |
| 103° 44' 24" | 1° 33' 00" | Sg. Tebrau | PUB Singapura |

(2) **Negeri Pahang**

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 102° 27' 00" | 3° 41' 00" | Sg. Pahang | Batu Sawar |
| 102° 37' 00" | 3° 26' 00" | Sg. Pahang | Bukit Kertau |
| 102° 36' 00" | 3° 30' 00" | Sg. Pahang | Chenor |
| 102° 39' 00" | 3° 44' 45" | Sg. Jempol | Ulu Jempol |
| 102° 40' 00" | 3° 41' 00" | Sg. Jempol | Jengka 3-7 |
| 102° 51' 00" | 3° 38' 00" | Sg. Liut | Kg. New Zealand |
| 102° 39' 00" | 3° 40' 00" | Sg. Jempol | Simpang Jengka |
| 102° 40' 00" | 3° 47' 00" | Sg. Jerik | Rumah Pam Sg. Jerik |
| 102° 56' 00" | 3° 20' 00" | Sg. Mentiga | Cini |
| 192° 59' 00" | 2° 56' 00" | Sg. Keratung | Paluh Rumbek |
| 102° 32' 48" | 3° 07' 63" | Sg. Aur | Aur |
| 102° 51' 27" | 2° 50' 51" | Sg. Keratung | Keratung |
| 103° 23' 00" | 3° 30' 15" | Sg. Pahang | Kg. Mengkasar |
| 103° 10' 00" | 3° 33' 00" | Sg. Pahang | Lepar/Pulau Manis |
| 103° 26' 00" | 3° 08' 00" | Ground Water | Nenasi |
| 103° 23' 30" | 3° 30' 54" | Sg. Pahang | Peramu |
| 103° 19' 00" | 3° 35' 00" | Sg. Pahang | Sekor |
| 101° 53' 00" | 3° 41' 00" | Sg. Bilut | Bilut |
| 101° 45' 00" | 3° 44' 00" | Sg. Hijau | Rumah Pam Bukit Fraser |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 101° 49' 00" | 3° 56' 00" | Sg. Cheroh | Cheroh |
| 101° 58' 00" | 3° 55' 00" | Sg. Keloi | Dong |
| 101° 49' 00" | 4° 19' 00" | Sg. Jelai | Rumah Pam Kuala Medang |
| 102° 01' 00" | 3° 42' 00" | Sg. Pertang | Lembah Klau |
| 101° 51' 30" | 3° 45' 24" | Sg. Bilut | Raub |
| 101° 59' 00" | 3° 44' 30" | Sg. Chalit | Rumah Pam Sg. Chalit |
| 102° 00' 00" | 3° 46' 00" | Sg. Kelau | Sg. Klau |
| 101° 48' 30" | 3° 44' 00" | Sg. Teras | Teras |
| 101° 47' 45" | 4° 12' 30" | Sg. Koyan | Rumah Pam Sg. Koyan |
| 103° 29' 36" | 3° 48' 24" | Ground Water | Rompin |
| 103° 26' 35" | 2° 37' 15" | Empangan Sg. Anak Endau | Loji Air Seladang |
| 102° 10' 30" | 3° 31' 00" | Sg. Semantan | Bukit Damar |
| 102° 18' 00" | 3° 18' 00" | Sg. Teriang | Bukit Mendi |
| 102° 30' 00" | 2° 18' 00" | Sg. Bera | Bera |
| 102° 33' 00" | 3° 24' 00" | Sg. Pahang | Charuk Puting |
| 102° 22' 00" | 2° 45' 00" | Sg. Kerau | Jenderak Utara |
| 102° 26' 00" | 2° 30' 00" | Sg. Pahang | Lubuk Kawah |
| 102° 23' 00" | 3° 31' 00" | Sg. Semantan | Mentakab |
| 101° 24' 30" | 3° 14' 30" | Sg. Teriang | Triang (Baru) |
| 101° 55' 00" | 3° 29' 00" | Sg. Benus | Bt. 4, Jln. KL/ Bentong |
| 101° 53' 00" | 3° 20' 00" | Sg. Benus | Janda Baik |
| 102° 03' 00" | 3° 26' 00" | Sg. Temelong | Karak |
| 101° 53' 00" | 3° 41' 00" | Sg. Bilut | Lurah Bilut |
| 102° 07' 10" | 3° 15' 20" | Sg. Gapoi | Sg. Gapoi |
| 101° 54' 00" | 3° 39' 00" | Sg. Penjuring | Sg. Penjuring |
| 102° 00' 30" | 3° 33' 00" | Sg. Kelau | Sg. Sertik |
| 101° 23' 30" | 4° 31' 20" | Sg. Bertam | Brinchang |
| 101° 25' 00" | 4° 34' 00" | Sg. Perlong | Kuala Terla |
| 101° 21' 00" | 4° 27' 00" | Sg. Jasin | Lubok Tamang |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|-------------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 101° 24' 10" | 4° 24' 35" | Sg. Bertam | Takong Empangan Bertam Valley |
| 101° 23' 50" | 4° 26' 20" | Sg. Luchut | Takong Empangan Habu |
| 101° 24' 20" | 3° 34' 40" | Sg. Ikan | Takong Empangan Kg. Raja |
| 101° 21' 40" | 4° 24' 20" | Sg. Ringlet | Takong Empangan Ringlet |
| 101° 25' 3" | 4° 30' 02" | Sg. Triangkap | Takong Empangan Tringkap |
| 102° 11' 00" | 4° 00' 00" | Sg. Cheka | Batu Balai |
| 102° 21' 42" | 3° 57' 30" | Sg. Pahang | Batu Embun |
| 102° 28' 00" | 3° 53' 00" | Sg. Tekam | Jengka 8-15 |
| 102° 19' 00" | 4° 03' 00" | Sg. Retang | Padang Piol |
| 102° 31' 48" | 3° 52' 00" | Sg. Tekam | Sg. Tekam |
| 102° 33' 42" | 3° 50' 00" | Sg. Tekam | Sg. Tekam Utara |
| 102° 16' 00" | 4° 05' 00" | Sg. Jelai | Mela |
| 102° 11' 00" | 4° 12' 00" | Sg. Jelai | Bt. 9 Halt |
| 101° 58' 00" | 4° 02' 00" | Sg. Lipis | Benta |
| 101° 59' 00" | 4° 14' 25" | Sg. Jelai | Bukit Betong |
| 102° 02' 10" | 4° 10' 20" | Sg. Lipis | Kuala Lipis |
| 102° 01' 00" | 4° 38' 00" | Sg. Merapoh | Rumah Pam Merapoh |
| 102° 06' 00" | 4° 19' 00" | Sg. Temau | Rumah Pam Sg. Temau |
| 103° 22' 00" | 3° 51' 00" | Sg. Jabor | Rumah Pam Alor Batu |
| 103° 21' 00" | 4° 01' 00" | Sg. Ular | Baru Sg. Ular |
| 103° 12' 00" | 3° 53' 00" | Sg. Riau | Bukit Goh |
| 103° 15' 34" | 3° 49' 42" | Sg. Kuantan | Bukit Ubi/Kg. Kobat |
| 103° 15' 00" | 3° 15' 00" | Sg. Kuantan | Kg. Padang |
| 103° 6' 00" | 3° 33' 00" | Sg. Lepar | Lepar Hilir |
| 103° 12' 00" | 3° 53' 00" | Sg. Kuantan | Pasir Kemudi |
| 103° 13' 00" | 3° 53' 00" | Sg. Berkelah | Paya Bungor |
| 103° 21' 00" | 3° 50' 00" | Sg. Kuantan | Semambu |
| 103° 02' 00" | 3° 56' 0" | Sg. Kuantan | Sg. Lembing |

(3) Negeri Kelantan

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 102° 14' 40" | 6° 06' 50" | Kg. Puteh Wellfield | Kampung Puteh |
| 102° 16' 40" | 6° 05' 20" | Kubang Kerian Wellfield | Kubang Kerian |
| 102° 17' 40" | 6° 09' 40" | Pengkalan Chepa Wellfield | Pengkalan Chepa |
| 102° 14' 15" | 6° 05' 50" | Pintu Geng Wellfield | Pintu Geng |
| 102° 16' 15" | 6° 08' 30" | Tg. Mas Wellfield | Tanjung Mas |
| 102° 16' 44" | 6° 05' 18" | Kubang Kerian Wellfield | Chicha |
| 102° 15' 57" | 6° 03' 53" | Kg. Scribong Wellfield | Chicha |
| 102° 15' 03" | 6° 04' 41" | Kg. Chicha Wellfield | Chicha |
| 102° 15' 38" | 6° 05' 12" | Kg. Pasir Hor Wellfield | Chicha |
| 102° 16' 48" | 6° 04' 01" | Kg. Pasir Tumboh Wellfield | Chicha |
| 102° 15' 44" | 6° 04' 29" | Kg. Padang Penyadat Wellfield | Chicha |
| 102° 17' 08" | 6° 05' 38" | Kg. Kenali Wellfield | Chicha |
| 102° 05' 20" | 6° 12' 30" | Wakaf Bharu Wellfield | Wakaf Bharu |
| 102° 10' 20" | 6° 10' 00" | Wakaf Bharu Wellfield | Wakaf Bharu |
| 102° 11' 50" | 6° 07' 00" | Kg. Sedar Wellfield | Kg. Sedar |
| 102° 09' 23" | 6° 02' 50" | Sg. Kelantan | Kelar |
| 101° 58' 00" | 6° 01' 10" | Rantau Panjang Wellfield | Rantau Panjang |
| 102° 08' 31" | 6° 02' 15" | Sg. Kelantan | Lemal |
| 102° 20' 40" | 6° 02' 30" | Kg. Chap Wellfield | Kg. Chap |
| 102° 23' 10" | 5° 00' 50" | Kg. Chap Wellfield | Kg. Chap |
| 102° 24' 00" | 6° 02' 50" | Jelawat Wellfield | Jelawat |
| 102° 24' 50" | 5° 49' 45" | Sg. Rasau | Wakaf Bunut |
| 102° 13' 08" | 5° 31' 17" | Sg. Kelantan | Tualang |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 102° 13' 40" | 5° 28' 20" | Sg. Lebir | Pahi |
| 102° 12' 20" | 5° 29' 30" | Sg. Lebir | Manik Urai |
| 102° 08' 40" | 5° 41' 50" | Sg. Kelantan | Kg. Bandar Kemubu |
| 102° 05' 45" | 5° 55' 50" | Sg. Muring | Kemahang |
| 102° 09' 20" | 5° 47' 20" | Sg. Kelantan | Bukit Remah |
| 102° 05' 45" | 5° 55' 50" | Sg. Jegor | Bendang Nyior |
| 101° 58' 30" | 5° 50' 00" | Sg. Jedok | Batu Gajah |
| 102° 05' 30" | 5° 41' 00" | Sg. Kerila | Kuala Tiga |
| 101° 53' 25" | 5° 46' 40" | Sg. Lanas | Air Lanas |
| 101° 50' 30" | 5° 42' 00" | Sg. Pergau | Jeli |
| 101° 50' 10" | 5° 29' 20" | Sg. Terang | Kuala Balah |
| 102° 00' 00" | 5° 18' 20" | Sg. Stong | Stong |
| 102° 04' 14" | 5° 04' 50" | Sg. Galas | Limau Kasturi |
| 102° 18' 29" | 4° 57' 40" | Sg. Lebir | Aring |
| 102° 02' 39" | 5° 08' 50" | Sg. Nenghiri | Bertam baru |
| 102° 10' 36" | 4° 53' 56" | Sg. Ciku | Ciku |
| 101° 59' 07" | 4° 50' 35" | Sg. Ketil | Sg. Ketil |
| 101° 47' 25" | 4° 54' 01" | Sg. Betis | Panggung Lalat |

(4) **Negeri Perlis**

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 100° 09' 14" | 6° 20' 11" | Anak Sungai | Terusan Arau |
| 100° 16' 15" | 6° 25' 15" | Telaga Gerek/Mada Canal | Arau |
| 100° 19' 00" | 6° 31' 25" | Telaga Gerek | Felda Chuping |
| 100° 12' 00" | 6° 42' 30" | Sungai Rasa | Wang Kelian |
| 100° 12' 00" | 6° 34' 00" | Empangan Timah Tasoh | Timah Tasoh |
| 100° 14' 30" | 6° 33' 15" | Telaga Gerek | Semadong |

(5) Negeri Kedah

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 100° 25' 48.3" | 6° 12' 20.5" | Ter. MADA Utara | Alor Star |
| 100° 27' 34.8" | 6° 13' 11.9" | Sg. Padang Terap | Jitra |
| 100° 36' 56.0" | 6° 14' 48.0" | Kuala Nerang | Kuala Nerang |
| 100° 41' 18.0" | 6° 20' 27.5" | Sg. Ahning | Padang Sanai |
| 100° 45' 10.5" | 6° 03' 16.3" | Sg. Muda | Nami |
| 100° 29' 2.47" | 5° 55' 29.1" | Ter. MADA Selatan | Bukit Jenun |
| 100° 43' 53.8" | 6° 00' 05.8" | Sg. Muda | Lubuk Merbau |
| 100° 26' 6.2" | 6° 23' 48.0" | Sg. Temin | Changloon |
| 100° 38' 43.4" | 5° 54' 26.2" | Sg. Muda | Jeneri |
| 100° 29' 47.3" | 5° 34' 13.8" | Sg. Muda | Pinang Tunggal |
| 100° 29' 59.6" | 5° 34' 13.8" | Sg. Muda | Pinang Tunggal |
| 100° 37' 13.8" | 5° 49' 26.8" | Sg. Muda | Jeniang |
| 100° 26' 28.3" | 5° 46' 04.7" | Gunung Jerai | Tupah |
| 100° 24' 54.1" | 5° 44' 36.6" | Gunung Jerai | Merbok |
| 100° 41' 37.8" | 5° 47' 40.0" | Sg. Chepir | Sik |
| 100° 30' 24.5" | 5° 34' 15.6" | Sg. Muda | Kulim Hi-Tech |
| 100° 30' 24.5" | 5° 34' 15.6" | Sg. Muda | Bukit Selambau |
| 100° 29' 47.3" | 5° 39' 39.7" | Sg. Ketil | Baling |
| 100° 29' 59.6" | 5° 40' 23.0" | Gunung Inas | Baling |
| 100° 37' 13.8" | 5° 40' 52.4" | Gunung Inas | Baling |
| 100° 26' 28.3" | 5° 36' 30.6" | Kuala Ketil | Kuala Ketil |
| 100° 24' 54.1" | 5° 43' 24.8" | Sg. Muda | Teloi Kanan |
| 100° 29' 47.3" | 5° 19' 40.7" | Sg. Kerian | Mahang |
| 100° 29' 59.6" | 5° 28' 57.0" | Sg. Sedim | Bikan |
| 100° 37' 13.8" | 5° 21' 50.5" | Sg. Kulim | Sg. Ular |
| 100° 26' 28.3" | 5° 08' 18.0" | Sg. Krian | Lubuk Buntar |
| 100° 29' 47.3" | 6° 22' 45.8" | Sg. Raga | Langkawi |
| 100° 29' 59.6" | 6° 22' 47.3" | Sg. Melaka | Langkawi |
| 100° 37' 13.8" | 6° 21' 09.4" | Empangan Malut | Langkawi |
| 100° 26' 28.3" | 6° 15' 16.5" | Sg. Teluk Bujur | Pulau Tuba |
| 100° 24' 54.1" | 6° 20' 24.3" | Ter. MADA, Arau | Langkawi |
| 100° 11' 10" | 6° 20' 26" | Mada Canal (Arau Canal) | Sg. Baru |

(6) Negeri Perak

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 100° 55' 15" | 4° 46' 25" | Sg. Biong | Sauk |
| 100° 57' 04" | 4° 48' 04" | Sg. Perak | Kota Lama Kiri |
| 100° 51' 33" | 4° 45' 04" | Sg. Kangsar | Pdg. Rengas |
| 100° 51' 23" | 4° 36' 17" | Sg. Guar | Manong |
| 101° 04' 33" | 4° 49' 21" | Sg. Kerbau | Sg. Siput |
| 101° 04' 10" | 4° 47' 42" | Sg. Bemban | Sg. Siput |
| 101° 04' 19" | 4° 59' 00" | Sg. Kucha | Felda Lasah |
| 101° 10' 45" | 4° 54' 40" | Sg. Kerbau | Perlop I |
| 101° 01' 09" | 5° 42' 36" | Sg. Kuak | Pengkalan Hulu |
| 101° 00' 20" | 5° 45' 33" | Sg. Semangga | Pengkalan Hulu |
| 101° 04' 11" | 5° 42' 00" | Sg. Kuak | Lepang Nenering |
| 101° 01' 02" | 5° 38' 08" | Sg. Kajang | Klian Intan |
| 101° 08' 03" | 5° 31' 51" | Sg. Berok | Kg. Jong |
| 101° 21' 02" | 5° 33' 10" | Sg. Perak—Tasek Temenggor | Pulau Banding |
| 101° 12' 43" | 5° 25' 48" | Sg. Perak—Tasek Bersia | Grik V |
| 101° 09' 45" | 5° 21' 40" | Sg. Perak | Air Ganda |
| 101° 03' 11" | 5° 18' 55" | Sg. Pulau | Lawin Kinayat |
| 101° 00' 41" | 5° 11' 43" | Sg. Ibol | Sumpitan |
| 100° 57' 38" | 5° 06' 55" | Sg. Lenggong | Lenggong |
| 100° 28' 38" | 5° 03' 54" | Terusan Besar | Jalan Baru |
| 100° 39' 06" | 4° 57' 38" | Terusan Selinsing | Gunung Semanggol |
| 100° 46' 15" | 4° 52' 45" | Sg. Ranting | Taiping Headworks |
| 100° 46' 15" | 4° 52' 53" | Sg. Anak Ranting | Taiping Headworks |
| 100° 46' 29" | 4° 50' 39" | Sg. Batu Teguh | Taiping Headworks |
| 100° 46' 16" | 4° 50' 06" | Sg. Tupai | Taiping Headworks |
| 100° 45' 53" | 4° 52' 05" | Sg. Air Terjun | Taiping Headworks |
| 100° 49' 23" | 5° 14' 47" | Sg. Seputeh | Sungai Bayor |
| 100° 51' 25" | 5° 15' 40" | Sg. Selama | Selama |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 100° 52' 30" | 5° 09' 10" | Sg. Klian Gunung | Kelian Gunung |
| 100° 50' 30" | 5° 00' 55" | Sg. Air Hitam | Jelai |
| 100° 49' 58" | 4° 54' 27" | Sg. Kurau | Batu Kurau |
| 100° 45' 25" | 4° 41' 27" | Sg. Terong | Terong |
| 100° 42' 56" | 4° 37' 48" | Sg. Wang | Air Terjun |
| 100° 46' 07" | 4° 37' 38" | Sg. Nyior | Air Terjun |
| 100° 46' 10" | 4° 36' 32" | Sg. Pulau | Air Terjun |
| 100° 46' 13" | 4° 48' 47" | Sg. Larut | Air Kuning |
| 100° 44' 45" | 4° 48' 41" | Sg. Buluh | Air Kuning |
| 101° 09' 41" | 4° 22' 02" | Sg. Kampar | Sg. Kampar |
| 101° 10' 38" | 4° 21' 24" | Sg. Palai | Sg. Palai |
| 101° 02' 42" | 4° 37' 45" | Sg. Tapah | Sg. Tapah |
| 100° 54' 57" | 4° 29' 17" | Sg. Perak | Sultan Idris Shah II |
| 101° 12' 03" | 4° 40' 07" | Sg. Kinta | Ulu Kinta |
| 100° 53' 00" | 4° 19' 19" | Sg. Perak | Teluk Kepayang |
| 100° 53' 00" | 4° 24' 19" | Sg. Perak | Kg. Paloh |
| 100° 54' 12" | 4° 22' 40" | Sg. Perak | BB Seri Iskandar |
| 100° 47' 00" | 4° 31' 11" | Sg. Lichin | Beruas |
| 100° 47' 07" | 4° 32' 29" | Sg. Beruas | Beruas |
| 100° 56' 11" | 4° 11' 02" | Sg. Perak | Kampung Gajah |
| 101° 19' 40" | 4° 17' 25" | Sg. Btg. Padang | Bukit Temoh |
| 101° 21' 45" | 4° 13' 04" | Sg. Who | Bukit Temoh |
| 101° 31' 48" | 3° 47' 52" | Sg. Behrang | Sg. Dara |
| 101° 16' 27" | 3° 56' 38" | Sg. Sungkai | Felda Gunung Besout |
| 101° 25' 39" | 3° 57' 17" | Sg. Trolak | Trolak Selatan |
| 101° 25' 39" | 3° 57' 17" | Sg. Trolak | Trolak Timor |
| 101° 24' 41" | 4° 00' 54" | Sg. Tesong | Felda Sg. Klah |
| 101° 30' 28" | 3° 53' 30" | Sg. Gelinting | Tg. Malim (Proton City) |

(7) Negeri Pulau Pinang

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|---|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 100° 16' 10" | 5° 24' 00" | Sg. Air Hitam | Pulau Pinang |
| 100° 15' 56" | 5° 24' 13" | Sg. Air Itam (Sg. Tepi) | Pulau Pinang untuk Kolam Air, Air Itam |
| 100° 16' 58" | 5° 26' 25" | Sg. Air Terjun | Pulau Pinang |
| 100° 14' 41" | 5° 26' 53" | Sg. Batu Ferringhi | Pulau Pinang |
| 100° 14' 28" | 5° 26' 51" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 20" | 5° 27' 17" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 42" | 5° 26' 52" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 26' 55" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 27' 12" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 27' 27" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 17' 32" | 5° 26' 04" | Highlands | Pulau Pinang |
| 100° 17' 28" | 5° 25' 02" | Highlands | Bekalan untuk Kolam Air, Air Terjun |
| 100° 16' 23" | 5° 27' 39" | Sg. Kecil | Pulau Pinang |
| 100° 16' 18" | 5° 27' 44" | Sg. Kecil | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 16' 37" | 5° 27' 23" | Sg. Klean | Pulau Pinang |
| 100° 15' 49" | 5° 26' 23" | Talian Kuasa Sg. Klean | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 13' 33" | 5° 24' 15" | Sg. Pinang Barat | Pulau Pinang |
| 100° 13' 40" | 5° 24' 16" | Sg. Pinang Barat | Bekalan untuk Kolam Air Balik Pulau |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|--|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 100° 14' 17" | 5° 28' 15" | Anak Sg. Sebelah 3Vs | Pulau Pinang |
| 100° 16' 33" | 5° 27' 41" | Sg. Siru | Pulau Pinang |
| 100° 16' 45" | 5° 24' 55" | Anak Sg. Tats | Pulau Pinang |
| 100° 14' 55" | 5° 25' 09" | Kolam Air Tiger Hill | Pulau Pinang untuk Kawasan Bukit Bendera |
| 100° 15' 51" | 5° 23' 46" | Empangan Air Itam | Pulau Pinang untuk Kolam Air, Air Itam |
| 100° 30' 13" | 5° 26' 05" | Sg. Kulim | Seberang Perai Utara |
| 100° 29' 15" | 5° 33' 24" | Sg. Muda | Seberang Perai Utara |
| 100° 29' 52" | 5° 22' 33" | Kolam Air Bukit Berapit/Sg. Mengkuang | Seberang Perai Tengah |
| 100° 30' 39" | 5° 21' 02" | Kolam Air Cherok Tok Kun | Seberang Perai Tengah |
| 100° 32' 11" | 5° 09' 35" | Kolam Air Bukit Panchor | Seberang Perai Selatan |
| 100° 17' 00" | 5° 25' 00" | Sg. Air Putih | Pulau Pinang Air Hitam |
| 100° 14' 41" | 5° 26' 53" | Sg. Batu Ferringhi | Pulau Pinang |
| 100° 14' 35" | 5° 28' 00" | Sg. Batu Ferringhi | Pulau Pinang Batu Ferringhi |
| 100° 34' 00" | 5° 10' 00" | Sg. Kecil Hilir | Seberang Perai Selatan |
| 100° 32' 00" | 5° 09' 00" | Simpang Hantu | Seberang Perai Selatan |
| 100° 13' 00" | 5° 26' 30" | Empangan Teluk Bahang | Pulau Pinang |

(8) Negeri Selangor

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 101° 04' 48" | 3° 43' 48" | Sg. Bernam | Sabak Bernam |
| 101° 40' 06" | 3° 27' 54" | Sg. Batang Kali | Hulu Selangor |
| 101° 23' 54" | 3° 40' 30" | Sg. Dusun | Hulu Selangor |
| 101° 26' 48" | 3° 44' 24" | Sg. Bernam | Hulu Selangor |
| 101° 25' 30" | 3° 37' 30" | Sg. Tenggi | Hulu Selangor |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 101° 35' 42" | 3° 38' 54" | Sg. Inki | Hulu Selangor |
| 101° 41' 30" | 3° 36' 42" | Sg. Gerachi | Hulu Selangor |
| 101° 34' 00" | 3° 24' 30" | Sg. Darah | Hulu Selangor |
| 101° 26' 48" | 3° 24' 00" | Sg. Selangor/Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 10' 30" | 3° 32' 30" | Sg. Sireh | Kuala Selangor |
| 101° 41' 10" | 3° 16' 05" | Sg. Batu/Empangan Batu | Gombak |
| 101° 40' 00" | 3° 17' 00" | Sg. Kanching | Gombak |
| 101° 44' 00" | 3° 18' 30" | Sg. Gombak | Gombak |
| 101° 36' 50" | 3° 14' 15" | Sg. Buloh | Gombak |
| 101° 44' 18" | 3° 17' 54" | Sg. Rumput | Gombak |
| 101° 37' 36" | 3° 14' 18" | Sg. Keroh | Gombak |
| 101° 33' 00" | 3° 01' 05" | Sg. Pusu | Gombak |
| 101° 48' 06" | 3° 09' 42" | Sg. Ampang | Gombak |
| 101° 29' 00" | 3° 10' 00" | Sg. Subang/Empangan Subang | Kelang |
| 101° 47' 18" | 3° 04' 42" | Sg. Langat/Empangan Langat | Hulu Langat |
| 101° 46' 36" | 3° 02' 36" | Sg. Langat/Empangan Langat | Hulu Langat |
| 101° 47' 12" | 3° 05' 48" | Sg. Serai | Hulu Langat |
| 101° 53' 25" | 3° 13' 15" | Sg. Lolo | Hulu Langat |
| 101° 53' 15" | 3° 12' 50" | Sg. Pangsoon | Hulu Langat |
| 101° 45' 36" | 3° 14' 16" | Sg. Klang/Empangan Klang Gates | Kuala Lumpur |
| 101° 40' 48" | 2° 50' 48" | Sg. Langat/Empangan Langat | Kuala Langat |
| 101° 43' 05" | 2° 46' 45" | Sg. Labu | Sepang |
| 101° 44' 20" | 2° 53' 20" | Sg. Semenyih/ Empangan Semenyih | Sepang |
| 101° 25.2' 15.9" | 3° 23.2' 19.9" | Batang Berjantai/Sg. Selangor | Kuala Selangor |
| 101° 26' 20.5" | 3° 23' 10.2" | Batang Berjantai/Sg. Selangor | Kuala Selangor |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|---|----------------------------|
| (1) | (2) | (3) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 101° 38' 7.7" | 3° 30' 30.4" | Rasa/Sg. Selangor | Kuala Selangor |
| 101° 44' 10" | 2° 53' 30" | Sg. Semenyih | Sepang |
| 101° 42' 50" | 2° 53' 23" | Sg. Semenyih | Sepang |
| 101° 48' 10" | 3° 09' 15" | Sg. Ampang | Gombak |
| 101° 41' 56" | 3° 28' 45" | Sg. Batang Kali | Hulu Selangor |
| 101° 20' 05" | 3° 40' 50" | Sg. Bernam | Sabak Bernam |
| 101° 26' 48" | 3° 44' 30" | Sg. Bernam | Hulu Selangor |
| 101° 31' 42" | 3° 24' 24" | Sg. Darah | Hulu Selangor |
| 101° 23' 54" | 3° 40' 30" | Sg. Dusun | Hulu Selangor |
| 101° 41' 30" | 3° 36' 42" | Sg. Gerachi | Kuala Selangor |
| 101° 44' 00" | 3° 18' 30" | Sg. Gombak | Gombak |
| 101° 44' 00" | 3° 17' 06" | Sg. Gombak | Gombak |
| 101° 36' 10" | 3° 39' 05" | Sg. Inki | Hulu Selangor |
| 101° 40' 18" | 3° 16' 24" | Sg. Kepong | Gombak |
| 101° 37' 36" | 3° 14' 18" | Sg. Keroh | Sg. Keroh |
| 101° 30' 48" | 3° 34' 05" | Sg. Kubu | Kuala Selangor |
| 101° 42' 05" | 2° 47' 05" | Sg. Labu | Sepang |
| 101° 40' 48" | 3° 50' 48" | Sg. Langat | Kuala Langat |
| 101° 46' 36" | 3° 02' 36" | Sg. Langat | Hulu Langat |
| 101° 50' 18" | 3° 44' 42" | Sg. Lolo | Hulu Langat |
| 101° 50' 24" | 3° 44' 36" | Sg. Pangsoon | Hulu Langat |
| 101° 43' 48" | 3° 17' 48" | Sg. Pusu | Gombak |
| 101° 40' 00" | 3° 17' 00" | Sg. Rangkap | Gombak |
| 101° 45' 05" | 3° 18' 00" | Sg. Rumput | Gombak |
| 101° 26' 48" | 3° 24' 00" | Sg. Selangor | Kuala Selangor |
| 101° 26' 48" | 3° 22' 06" | Sg. Selangor | Kuala Selangor |
| 101° 47' 12" | 3° 05' 48" | Sg. Serai | Hulu Langat |
| 101° 25' 40" | 3° 38' 15" | Sg. Tenggi | Hulu Selangor |
| 101° 45' 36" | 3° 14' 16" | Empangan Klang Gates | Kuala Lumpur |
| 101° 45' 36" | 4° 14' 16" | Empangan Klang Gates | Gombak |
| 101° 47' 30" | 3° 04' 42" | Empangan Sg. Langat (pelepasan ke dalam Sg. Langat) | Hulu Langat |
| 101° 41' 10" | 3° 17' 05" | Empangan Sg. Batu | Gombak |
| 101° 28' 48" | 3° 10' 00" | Empangan Tasik Subang | Kelang |

(9) Negeri Sarawak

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-----------------------------------|----------------------------|--|--------------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 111° 52' 47" | 1° 34' 52" | Sg. Batang Rajang | Sibu |
| 111° 52' 27" | 2° 15' 51" | Sg. Batang Rajang | Sibu |
| 110° 16' 42" | 1° 27' 20" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 44" | 1° 27' 19" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 33" | 1° 26' 58" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 31" | 1° 26' 52" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 12' 30" | 1° 34' 52" | Empangan Matang | Matang, Kuching |
| 110° 11' 14" | 1° 36' 33" | Sg. Cina | Matang, Kuching |
| 110° 12' 53" | 1° 34' 56" | Sebubut Basin Intake | Matang, Kuching |
| 112° 02' 05" | 4° 18' 18" | Sg. Liku | Miri |
| 114° 02' 05" | 4° 18' 19" | Sg. Liku | Miri |
| 114° 06' 05" | 4° 18' 18" | Sg. Liku | Miri |
| 114° 01' 58" | 4° 18' 06" | Sg. Liku | Miri |
| 114° 07' 40" | 4° 11' 37" | Sg. Bakong | Buri |
| 114° 58' 10" | 4° 40' 01" | Sg. Berawan | Limbang |
| 115° 02' 27" | 4° 37' 07" | Sg. Pendaruan | Limbang |
| 112° 25' 45" | 2° 40' 30" | Sg. Krat | Bako |
| 110° 08' 47" | 1° 08' 47" | Sg. Sarawak Kanan | Kuching |
| 109° 51' 11" | 1° 40' 52" | Sg. Lundu | Kuching |
| 110° 28' 50" | 1° 38' 48" | Sg. Selabat | Kuching |
| 110° 24' 04" | 1° 17' 28" | Sg. Tapah | Siburan, Tapah dan Beratok |
| 109° 47' 44" | 1° 47' 41" | Sg. Sebat Besar | Sematan |
| 110° 01' 56" | 1° 26' 52" | Sg. Siniawan | Kuching |
| 111° 31' 10" | 1° 08' 14" | Sg. Batang Undup | Sri Aman |
| 111° 25' 00" | 1° 06' 15" | Sg. Dor | Melugu |
| 111° 37' 10" | 1° 17' 08" | Sg. Dor | Skrang |
| 111° 49' 51" | 1° 00' 11" | Sg. Batang Ai | Lubuk Antu |
| 111° 38' 13" | 1° 07' 53" | Sg. Marup | Engkili |
| 111° 23' 05" | 1° 18' 22" | Sg. Seterap | Pantu |
| 111° 10' 16" | 1° 21' 05" | Sg. Stugok | Lingga |
| 112° 50' 05" | 1° 02' 26" | Sg. Lemanak | Lubuk Antu LDS |
| 111° 32' 16" | 1° 24' 31" | Sg. Stumbin | Stumbin/Bijat |
| 113° 06' 33" | 3° 12' 32" | Sg. Sibiu | Bintulu |
| 113° 06' 32" | 3° 12' 27" | Sg. Sibiu | Bintulu |
| 111° 02' 09" | 1° 39' 38" | Sg. Meludam | Meludam |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 111° 07' 00" | 1° 10' 00" | Sg. Batang Layar | Betong |
| 111° 23' 57" | 1° 39' 12" | Sg. Obar | Debak |
| 111° 12' 19" | 1° 38' 01" | Sg. Dumit | Beladin |
| 111° 17' 15" | 1° 38' 39" | Sg. Undai | Pusa |
| 111° 19' 34" | 1° 47' 15" | Sg. Sebelak | Betong |
| 111° 41' 11" | 2° 04' 54" | Sg. Bintangor | Bintangor |
| 111° 30' 05" | 2° 01' 35" | Sg. Bintangor | Sarikei |
| 111° 40' 45" | 1° 53' 35" | Sg. Julau | Pakan |
| 111° 54' 15" | 2° 01' 41" | Sg. Julau | Julau |
| 111° 15' 42" | 2° 00' 54" | Sg. Kerubong | Selalang |
| 115° 23' 11" | 4° 49' 34" | Sg. Gaya | Lawas |
| 114° 55' 48" | 4° 49' 34" | Sg. Menuang | Lubai Tengah |
| 115° 19' 17" | 4° 50' 32" | Sg. Batang Trusan | Trusan |
| 115° 16' 15" | 4° 47' 08" | Sg. Batang Trusan | Sundar |
| 110° 33' 45" | 1° 09' 45" | Sg. Sadong | Serian |
| 110° 37' 08" | 1° 08' 03" | Sg. Sinyaru | Triboh |
| 110° 47' 61" | 1° 22' 03" | Sg. Melanjok | Simunjan |
| 110° 30' 21" | 1° 05' 53" | Sg. Kayan | Terbakang |
| 110° 40' 00" | 1° 12' 23" | Sg. Batang Krang | Gedong |
| 110° 37' 01" | 1° 32' 31" | Sg. Nonok | Samarahan |
| 110° 56' 06" | 1° 31' 08" | Sg. Sebuyau | Sebuyau |
| 110° 21' 18" | 1° 01' 45" | Sg. Suhu | Tebedu |
| 110° 45' 58" | 1° 33' 36" | Sg. Sebangau | Sebangau |
| 110° 48' 26" | 1° 03' 04" | Sg. Krang | Balai Ringin |
| 113° 16' 08" | 3° 06' 43" | Sg. Sebangat | Sebauh |
| 112° 51' 32" | 2° 53' 13" | Sg. Sap Kiri | Tatau |
| 113° 29' 49" | 3° 15' 39" | Sg. Batang Kemena | Labang |
| 113° 42' 49" | 3° 09' 54" | Sg. Jelalang | Tubau |
| 112° 47' 05" | 3° 04' 08" | Ground Water | Bintulu |
| 112° 47' 15" | 3° 04' 08" | Sg. Anap | Bintulu |
| 113° 56' 42" | 3° 09' 52" | Sg. Koyan | Bakau |
| 114° 19' 06" | 4° 10' 40" | Sg. Batang Baram | Miri |
| 114° 24' 43" | 3° 45' 56" | Sg. Batang Baram | Long Lama |
| 113° 55' 44" | 4° 06' 26" | Sg. Kejapil | Bekenu |
| 114° 06' 15" | 3° 58' 02" | Sg. Bakong | Beluru |
| 113° 47' 02" | 3° 44' 00" | Sg. Niah | Niah, Subis |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 112° 11' 26" | 2° 46' 08" | Sg. Kanowit | Kanowit |
| 112° 35' 09" | 3° 00' 47" | Sg. Mukah | Ulu Mukah |
| 112° 23' 28" | 2° 22' 28" | Sg. Ulu Mukah | Ng. Sekau |
| 112° 04' 19" | 2° 52' 26" | Sg. Kanowit | Machan |
| 112° 04' 46" | 2° 17' 15" | Sg. Bawang Assan | Sibu |
| 111° 58' 30" | 2° 41' 15" | Sg. Ngemah | Ng. Jagau |
| 111° 18' 21" | 1° 53' 08" | Sg. Kabah | Ng. Tada |
| 112° 09' 08" | 2° 55' 18" | Sg. Ngemah | Ng. Ngungun |
| 112° 56' 15" | 2° 00' 51" | Sg. Batang Rejang | Kapit |
| 113° 46' 02" | 2° 42' 33" | Sg. Belaga | Belaga |
| 113° 40' 57" | 1° 49' 08" | Sg. Batang Baleh | Ng. Entawau |
| 112° 32' 24" | 2° 56' 17" | Sg. Suyung | Balingan |
| 112° 09' 05" | 2° 05' 57" | Sg. Batang Mukah | Mukah |
| 111° 43' 10" | 2° 50' 05" | Sg. Lasai Dagan | Igan |
| 111° 50' 28" | 2° 44' 11" | Sg. Nangar | Kut |
| 112° 21' 36" | 2° 05' 16" | Sg. Setuan Besar | Kuala Balingian |
| 111° 30' 42" | 2° 38' 14" | Sg. Mabun | Kg. Tian |
| 111° 23' 32" | 2° 2' 5 05" | Sg. Muara Serdang | Semup |
| 111° 15' 12" | 2° 24' 48" | Ground Water | Paloh |
| 111° 35' 08" | 2° 0' 4 49" | Sg. Batang Jemoreng | Matu |
| 111° 27' 54" | 2° 37' 57" | Sg. Daro | Daro |
| 111° 27' 50" | 2° 30' 00" | Ground Water | Saai |

(10) Wilayah Persekutuan Labuan

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 115° 11' 00" | 5° 21' 00" | Sg. Kina Benuwa | Empangan Air Bukit Kuda |
| 115° 10' 00" | 5° 19' 00" | Sg. Kina Benuwa | Empangan Air Sungai Pagar |
| 115° 13' 00" | 5° 19' 00" | Sg. Kina Benuwa | Empangan Air Kerupang |
| 115° 12' 59" | 5° 18' 13" | Sg. Kina Benuwa | |
| 115° 14' 59" | 5° 17' 36" | Telaga Tiub Borehole No. A19 | |
| 115° 15' 01" | 5° 17' 27" | Telaga Tiub Borehole No. M | |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 115° 15' 02" | 5° 17' 19" | Telaga Tiub Borehole No. B | |
| 115° 15' 17" | 5° 17' 21" | Telaga Tiub Borehole No. A 21 | |
| 115° 15' 26" | 5° 17' 24" | Telaga Tiub Borehole No. M 11 | |
| 115° 15' 34" | 5° 17' 38" | Telaga Tiub Borehole No. B 23 | |
| 115° 15' 20" | 5° 17' 42" | Telaga Tiub Borehole No. A 12 | |
| 115° 15' 16" | 5° 10' 05" | Telaga Tiub Borehole No. W 5 | |
| 115° 15' 11" | 5° 17' 53" | Telaga Tiub Borehole No. A 20 | |
| 115° 15' 01" | 5° 10' 16" | Telaga Tiub Borehole No. B 24 | |
| 115° 15' 01" | 5° 10' 01" | Telaga Tiub Borehole No. 10 | |
| 115° 14' 59" | 5° 10' 30" | Telaga Tiub Borehole No. W 4 | |
| 115° 14' 48" | 5° 18' 45" | Telaga Tiub Borehole No. W 3 | |
| 115° 14' 26" | 5° 19' 51" | Telaga Tiub Borehole No. B 27 | |
| 115° 14' 26" | 5° 19' 52" | Telaga Tiub Borehole No. A 14 | |
| 115° 14' 13" | 5° 19' 36" | Telaga Tiub Borehole No. A 17 | |
| 115° 14' 29" | 5° 19' 18" | Telaga Tiub Borehole No. A 13 | |
| 115° 14' 38" | 5° 19' 28" | Telaga Tiub Borehole No. B 26 | |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 115° 14' 33" | 5° 19' 05" | Telaga Tiub Borehole No. W 1 | |
| 115° 14' 39" | 5° 19' 12" | Telaga Tiub Borehole No. B 25 | |
| 115° 14' 40" | 5° 18' 56" | Telaga Tiub Borehole No. W 2 | |
| 115° 14' 44" | 5° 18' 28" | Telaga Tiub Borehole No. A 8 | |
| 115° 14' 28" | 5° 18' 28" | Telaga Tiub Borehole No. A 15 | |
| 115° 15' 09" | 5° 17' 32" | Telaga Tiub Borehole No. B 22 | |
| 115° 14' 46" | 5° 18' 00" | Telaga Tiub Borehole No. A 18 | |

(11) Negeri Sabah

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 116° 09' 24.2" | 5° 55' 21.4" | Sg. Moyog | Penampang |
| 116° 11' 16.2" | 5° 54' 47.6" | Empangan Babagon | Penampang |
| 116° 06' 33.6" | 5° 54' 52.4" | Sg. Moyog | Penampang |
| 116° 00' 00.1" | 5° 41' 06.6" | Sg. Papar | Papar |
| 115° 56' 51.9" | 5° 42' 52.9" | Sg. Papar | Papar |
| 115° 56' 52.2" | 5° 42' 50.2" | Sg. Papar | Papar |
| 116° 02' 12.5" | 5° 42' 31.4" | Sg. Papar | Papar |
| 116° 14' 34.3" | 6° 08' 49.9" | Sg. Tuaran | Tamparuli |
| 116° 16' 09.9" | 6° 07' 54.9" | Sg. Tuaran | Tamparuli |
| 116° 14' 14.3" | 6° 09' 12.2" | Sg. Tuaran | Tamparuli |
| 116° 13' 56.6" | 6° 08' 24.9" | Sg. Tuaran | Tamparuli |
| 116° 17' 55.7" | 6° 11' 20.4" | Sg. Damit | Tuaran |
| 116° 13' 43.2" | 6° 10' 26.1" | Sg. Tuaran | Tuaran |
| 118° 06' 49.7" | 5° 51' 14.2" | Boreholes | Sandakan |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 118° 06' 47.9" | 5° 51' 22.0" | Boreholes | Sandakan |
| 118° 06' 29.0" | 5° 51' 21.4" | Boreholes | Sandakan |
| 118° 06' 12.9" | 5° 51' 27.6" | Boreholes | Sandakan |
| 118° 05' 51.5" | 5° 51' 21.6" | Boreholes | Sandakan |
| 118° 04' 41.3" | 5° 51' 17.0" | Boreholes | Sandakan |
| 118° 03' 45.1" | 5° 49' 58.8" | Boreholes | Sandakan |
| 118° 03' 49.1" | 5° 50' 04.1" | Boreholes | Sandakan |
| 118° 04' 07.6" | 5° 50' 36.7" | Boreholes | Sandakan |
| 118° 04' 14.1" | 5° 50' 45.5" | Pond | Sandakan |
| 118° 04' 19.8" | 5° 50' 57.5" | Boreholes | Sandakan |
| 118° 04' 31.8" | 5° 51' 14.1" | Boreholes | Sandakan |
| 118° 03' 03.6" | 5° 50' 36.5" | Boreholes | Sandakan |
| 118° 03' 01.2" | 5° 50' 24.9" | Pond | Sandakan |
| 118° 02' 41.5" | 5° 50' 13.6" | Boreholes | Sandakan |
| 118° 02' 46.4" | 5° 50' 00.0" | Boreholes | Sandakan |
| 118° 02' 50.8" | 5° 49' 57.9" | Pond | Sandakan |
| 118° 02' 26.5" | 5° 49' 34.2" | Boreholes | Sandakan |
| 118° 02' 24.3" | 5° 49' 20.8" | Boreholes | Sandakan |
| 118° 02' 11.6" | 5° 49' 59.1" | Boreholes | Sandakan |
| 118° 01' 44.8" | 5° 50' 18.7" | Boreholes | Sandakan |
| 118° 01' 56.1" | 5° 49' 39.3" | Boreholes | Sandakan |
| 118° 01' 35.2" | 5° 49' 30.1" | Boreholes | Sandakan |
| 118° 01' 22.4" | 5° 49' 25.5" | Boreholes | Sandakan |
| 118° 01' 19.2" | 5° 48' 53.9" | Boreholes | Sandakan |
| 118° 04' 42.1" | 5° 51' 16.0" | Boreholes | Sandakan |
| 117° 50' 11.3" | 5° 29' 07.2" | Sg. Kinabatangan | Kinabatangan |
| 117° 32' 00" | 5° 53' 00" | Sg. Muanad | Beluran |
| 117° 52' 48.3" | 4° 16' 47.0" | Sg. Tawau | Tawau |
| 117° 53' 52.2" | 4° 21' 00.4" | Sg. Tawau | Tawau |
| 117° 46' 31.7" | 4° 27' 10.0" | Sg. Merotai | Tawau |
| 118° 10' 09.6" | 5° 00' 11.4" | Empangan Sepagaya | Lahad Datu |
| 118° 13' 28.0" | 5° 06' 01.2" | Sg. Segama | Lahad Datu |
| 118° 49' 50.8" | 5° 04' 24.5" | Sg. Tungku | Lahad Datu |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 118° 14' 34.7" | 4° 28' 52.3" | Sg. Kalumpang | Semporna |
| 118° 11' 04.4" | 4° 35' 10.9" | Sg. Kalumpang | Kunak |
| 116° 08' 48.8" | 5° 22' 39.9" | Sg. Liawan | Keningau |
| 116° 10' 01.6" | 5° 26' 18.0" | Sg. Bayayo | Keningau |
| 116° 20' 04.4" | 5° 41' 49.6" | Sg. Tondulu | Tambunan |
| 115° 56' 06.0" | 5° 06' 58.7" | Sg. Padas | Tenom |
| 115° 55' 01.8" | 4° 53' 38.8" | Sg. Padas | Tenom |
| 116° 25' 59.4" | 5° 02' 01.5" | Sg. Panawan | Pensiangan |
| 116° 18' 12.6" | 5° 08' 38.2" | Sg. Sook | Sook |
| 115° 46' 10.9" | 5° 20' 36.2" | Sg. Padas | Beaufort |
| 115° 34' 37.5" | 5° 06' 31.0" | Sg. Lukutan | Sipitang |
| 115° 48' 04.0" | 5° 28' 19.7" | Sg. Membakat | Membakat |
| 116° 48' 04.4" | 6° 56' 20.5" | Empangan Pinangsoo | Kudat |
| 116° 44' 56.6" | 6° 28' 01.1" | Sg. Bandau | Kota Marudu |
| 116° 44' 54.1" | 6° 27' 57.1" | Sg. Pengapunya | Kota Marudu |
| 117° 01' 50.1" | 6° 40' 45.1" | Sg. Bengkoka | Pitas |
| 116° 26' 05.4" | 6° 21' 31.8" | Sg. Tempasuk | Kota Belud |
| 116° 37' 43.4" | 5° 57' 16.1" | Sg. Liwagu | Ranau |
| 117° 06' 00" | 5° 37' 00" | Sg. Maliau | Telupid |
| 116° 59' 00" | 5° 16' 00" | Sg. Milian | Tongod |
| 116° 50' 00" | 5° 12' 00" | Sg. Melikop | Tongod |

(12) Negeri Terengganu

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 103° 21' 20" | 4° 40' 40" | Loji Air Bukit Bauk | Dungun |
| 103° 20' 18" | 4° 47' 40" | Loji Air Serdang | Dungun |
| 103° 10' 20" | 4° 49' 10" | Loji Air Tepus | Dungun |
| 103° 19' 10" | 4° 13' 00" | Loji Air Bukit Sah | Kemaman |
| 103° 11' 50" | 4° 06' 35" | Loji Air Cherul | Kemaman |
| 103° 03' 50" | 5° 15' 55" | Loji Air Kepong | Kuala Terengganu |
| 103° 05' 40" | 5° 17' 37" | Loji Air Bukit Losong | Kuala Terengganu |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 103° 00' 35" | 5° 04' 30" | Loji Air Kuala Berang | Hulu Terengganu |
| 103° 02' 45" | 4° 55' 45" | Loji Air Gunung | Hulu Terengganu |
| 102° 58' 05" | 5° 09' 10" | Loji Air Telemong | Hulu Terengganu |
| 103° 12' 15" | 4° 50' 38" | Loji Air Jerangau | Hulu Terengganu |
| 102° 30' 00" | 5° 38' 05" | Loji Air Bukit Bunga (Lama dan Baru) | Besut |
| 102° 45' 00" | 5° 05' 00" | Loji Air Pulau Perhentian | Besut |
| 102° 45' 00" | 5° 31' 50" | Sg. Setiu | Setiu |
| 102° 49' 42" | 5° 26' 18" | Sg. Chalok | Setiu |
| 102° 51' 42" | 5° 20' 12" | Sg. Nerus | Setiu |

(13) Negeri Sembilan

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 102° 20' 32" | 2° 34' 06" | Empangan Gemenchek | Gemenchek |
| 102° 34' 18" | 2° 38' 35" | Sg. Muar | Gemas Baru |
| 102° 32' 21" | 2° 38' 23" | Sg. Muar | Pasir Besar |
| 102° 21' 10" | 2° 40' 14" | Sg. Dangi | Dangi Baru |
| 102° 23' 49" | 2° 36' 16" | Telaga Tiub Bukit Rokan | Bukit Rokan |
| 102° 03' 17" | 2° 39' 40" | Sg. Beringin | Pedas Baru |
| 102° 34' 18" | 2° 38' 59" | Empangan Batu Hampar | Pedas Lama |
| 102° 22' 01" | 2° 43.00' | Sg. Jelai | Felda Kepis |
| 102° 14' 79" | 2° 44' 02" | Sg. Muar | Bukit Pilah |
| 102° 14' 22" | 2° 44' 25" | Sg. Muar | Kuala Pilah |
| 102° 04' 3" | 2° 42' 44" | Sg. Batang Terachi | Ulu Bendul |
| 102° 08' 51.7" | 2° 47' 10" | Empangan Talang/Sg. Muar | Air Talang |
| 102° 24.090' | 2° 44' 24" | Sg. Muar | Kuala Jelai |
| 102° 22' 0.05" | 2° 48' 59" | Sg. Muar | Bahau Baru |
| 102° 22' 24.8" | 2° 47' 59" | Sg. Muar | Jempol |
| 102° 0.1' 26.4" | 2° 48' 14" | Hutan Simpan Berembun | Pantai |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|-------------------------------|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 101° 55' 04.5" | 2° 56' 06" | Sg. Broga | Broga |
| 101° 59' 43.4" | 2° 45' 31" | Sg. Batang Benar | Terip |
| 101° 00' 14.3" | 2° 45' 33" | Empangan Sg. Terip | Loji Rawatan Air Sg. Terip |
| 102° 14.784' | 2° 44' 25" | Sg. Mahang | Mahang |
| 101° 50.000' | 2° 48' 14" | Sg. Ngoi-Ngoi | Ngoi-Ngoi |
| 102° 56.927 | 2° 36' 12" | Sg. Linggi | Linggi |
| 102° 03' 59" | 02° 56' 13.1" | Sg. Kemin | Kuala Klawang |
| 102° 13' 04.7" | 3° 04' 31" | Sg. Triang | Lakai |
| 102° 06' 40.0" | 3° 04' 02" | Sg. Kenaboi | Felda Titi |
| 102° 13' 36" | 02° 57' 54" | Sg. Pertang | Durian Tawar |

(14) Negeri Melaka

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|----------------------------|--|---|
| (1) | | (2) | (3) |
| <i>Longitud (Timur)</i> | <i>Latitud (Utara)</i> | | |
| 102° 15' 50" | 2° 17' 55" | Sg. Melaka | Jasin, Melaka Tengah dan Alor Gajah |
| 102° 18' 40" | 2° 20' 00" | Empangan Durian Tunggal | Melaka Tengah, Alor Gajah dan Jasin |
| 102° 15' 50" | 2° 17' 55" | Sg. Melaka | Melaka Tengah, Alor Gajah dan Jasin |
| 102° 15' 25" | 2° 24' 35" | Sg. Batang Melaka | Alor Gajah, Masjid Tanah dan Lubuk Cina |
| 102° 29' 12" | 2° 16' 00" | Sg. Kesang | Jasin |
| 102° 28' 15" | 2° 11' 50" | Sg. Kesang | Jasin dan Merlimau |
| 102° 22' 15" | 2° 26' 35" | Empangan Jus | Alor Gajah, Masjid Tanah dan Lubuk Cina |
| 102° 35' 16" | 2° 24' 23" | Empangan Asahan | Asahan, Simpang Bekoh, Nyalas dan Bukit Senggeh |
| 102° 45' 02" | 2° 12' 10" | Sg. Muar | Melaka Tengah, Alor Gajah dan Jasin |

JADUAL KEEMPAT

(Peraturan 9)

KAEDAH PENGANALISISAN KUMBAHAN

1. Edisi ke-21 "*Standard Methods for the Examination of Water and Wastewater*" yang diterbitkan bersama oleh *American Public Health Association, the American Water Works Association* dan *the Water Environment Federation of the United States of America*; atau
2. "*Code of Federal Regulations, Chapter 40, Subchapter D, part 136*" yang diterbitkan oleh *Office of the Federal Register, National Archives and Records Administration, United States of America*.

JADUAL KELIMA

(Peraturan 10)

LAPORAN PEMANTAUAN BULANAN PEMBUANGAN KUMBAHAN

SEKSYEN I

PENGENALAN

1. (i) Nama dan alamat premis:
.....
Nombor telefon: Nombor faks:
- (ii) Nombor fail rujukan Jabatan Alam Sekitar (jika berkenaan):
2. (i) Nama dan alamat makmal analitis yang bertauliah:
.....
.....
Nombor telefon: Nombor faks:
- (iii) Nama penganalisis:
.....
3. (i) Tahun melaporkan:
(ii) Bulan melaporkan:

SEKSYEN II

MAKLUMAT KUMBAHAN*

4. (i) Kadar aliran
Maksimum: m³/d, Minimum: m³/d
- (ii) Penduduk setara:

(iii) Kualiti kumbahan yang dibuang

Kualiti kumbahan yang dibuang (unit dalam mg/L) bagi sistem pengolahan kumbahan baru

| Parameter | Minggu pertama | Minggu kedua | Minggu ketiga | Minggu keempat |
|---|----------------|--------------|---------------|----------------|
| | Tarikh: | Tarikh: | Tarikh: | Tarikh: |
| BOD ₅ pada 20°C | | | | |
| COD | | | | |
| Pepejal Terampai | | | | |
| Minyak dan Gris | | | | |
| Nitrogen Ammonia (badan air yang terkepung) | | | | |
| Nitrogen Ammonia (sungai) | | | | |
| Nitrogen Nitrat (sungai) | | | | |
| Nitrogen Nitrat (badan air yang terkepung) | | | | |
| Fosforus (badan air yang terkepung) | | | | |

Kualiti kumbahan yang dibuang (unit dalam mg/L) bagi sistem pengolahan kumbahan yang sedia ada

| Parameter | Minggu pertama | Minggu kedua | Minggu ketiga | Minggu kelima |
|----------------------------|----------------|--------------|---------------|---------------|
| | Tarikh: | Tarikh: | Tarikh: | Tarikh: |
| BOD ₅ pada 20°C | | | | |
| COD | | | | |
| Pepejal Terampai | | | | |
| Minyak dan Gris | | | | |

NOTA:*

- (a) Kadar aliran dan kepekatan kumbahan di petunjuk pembuangan sebagaimana yang ditentukan mengikut tatacara pensampelan dan kaedah penganalisan yang dinyatakan dalam peraturan 9.
- (b) Sistem pengolahan kumbahan dengan penduduk setara kurang daripada 5000 hendaklah menjalankan pensampelan sebulan sekali sahaja.

SEKSYEN III

AKUAN

Saya, dengan ini mengaku bahawa semua maklumat yang diberikan dalam borang ini adalah benar dan betul sepanjang pengetahuan dan kepercayaan saya.

Tandatangan orang yang bertanggungjawab:

.....

Nama:

Jawatan:

Tarikh:

(Capkan meterai atau cap rasmi syarikat)

JADUAL KEENAM

(Peraturan 11)

SPESIFIKASI PETUNJUK PEMBUANGAN KUMBAHAN

1. Petunjuk pembuangan terletak dalam sempadan sistem pengolahan kumbahan, sebaik selepas unit terakhir operasi atau unit proses.
2. Lokasi petunjuk pembuangan mudah diakses dan tidak mendatangkan apa-apa bahaya kepada kakitangan yang melaksanakan pemeriksaan di tapak atau pensampelan kumbahan.
3. Larut resapan yang dibuang melalui paip, pembuluh atau saluran untuk memudahkan pensampelan kumbahan.
4. Petunjuk pembuangan dikenal pasti secara fizikal dengan memasang tanda pengenalan logam yang dibaca "Petunjuk Pelepasan Terakhir".
5. Petunjuk pembuangan dan sekitarnya disenggarakan dengan sewajarnya supaya bebas daripada apa-apa halangan yang boleh mendatangkan kesulitan atau bahaya semasa pemeriksaan di tapak atau pensampelan kumbahan.

JADUAL KETUJUH

(Peraturan 24)

KAEDAH MENGHITUNG FI LESEN BERKAITAN KUMBAHAN

1. Bagi sistem pengolahan kumbahan yang sedia ada, fi lesen berkaitan kumbahan dihitung seperti yang berikut:

| Parameter | Fi setiap kg bahan cemar yang dibuang ke dalam perairan pedalaman sebagaimana yang dinyatakan dalam subperenggan 5(1)(a), (c) atau (e) | Fi setiap kg bahan cemar yang dibuang ke atas mana-mana tanah atau ke dalam perairan pedalaman yang lain |
|--------------------------------|--|--|
| (i) BOD ₅ pada 20°C | RM0.50 | RM0.05 |
| (ii) Minyak dan Gris | RM2500.00 | RM250.00 |

2. Bagi sistem pengolahan kumbahan baru, fi lesen berkaitan kumbahan dihitung seperti yang berikut:

| Parameter | Fi setiap kg bahan cemar yang dibuang ke dalam perairan pedalaman sebagaimana yang dinyatakan dalam subperenggan 5(1)(a), (c) atau (e) | Fi setiap kg bahan cemar yang dibuang ke atas mana-mana tanah atau ke dalam perairan pedalaman yang lain |
|--------------------------------|--|--|
| (i) BOD ₅ pada 20°C | RM0.50 | RM0.05 |
| (ii) Minyak dan Gris | RM2500.00 | RM250.00 |
| (iii) Nitrogen Ammonia | RM500.00 | RM50.00 |

Dibuat 12 Oktober 2009
[AS(S) 91/110/919/026; PN(PU²)280/XII]

DATUK DOUGLAS UGGAH EMBAS
Menteri Sumber Asli dan Alam Sekitar

ENVIRONMENTAL QUALITY ACT 1974

ENVIRONMENTAL QUALITY (SEWAGE) REGULATIONS 2009

ARRANGEMENT OF REGULATIONS

Regulation

1. Citation
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3. Application
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7. Acceptable conditions of sewage discharge
8. Licence to contravene acceptable conditions for sewage discharge
9. Method of analysis and sampling of sewage
10. Monitoring of sewage discharge
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14. Prohibition against discharge of sludge into inland waters or Malaysian waters
15. Restriction on the disposal of sludge onto land
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17. Reporting changes in information furnished for purpose of application of licence
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20. Maintenance of records
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Regulation

23. Owner or occupier to render assistance during inspection
24. Fee for licence
25. Waiver of fee
26. Penalty
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FIRST SCHEDULE

SECOND SCHEDULE

THIRD SCHEDULE

FOURTH SCHEDULE

FIFTH SCHEDULE

SIXTH SCHEDULE

SEVENTH SCHEDULE

ENVIRONMENTAL QUALITY ACT 1974

ENVIRONMENTAL QUALITY (SEWAGE) REGULATIONS 2009

IN exercise of the powers conferred by sections 21, 24, 25 and 51 of the Environmental Quality Act 1974 [*Act 127*], the Minister, after consultation with the Environmental Quality Council, makes the following regulations:

Citation

1. These regulations may be cited as the **Environmental Quality (Sewage) Regulations 2009**.

Interpretation

2. (1) In these Regulations—

“sludge” means any deposit of particulate matter settled from a liquid, including deposit resulting from physical, chemical, biological or other treatment of sewage;

“professional engineer” has the same meaning assigned to it in the Registration of Engineers Act 1967 [*Act 138*];

“sewage” means any liquid waste or wastewater discharge containing human, animal, domestic or putrescible matter in suspension or solution, and includes liquids containing chemicals in solution either in the raw, treated or partially treated form;

“licence” means a licence referred to in regulation 8 pursuant to subsection 25(1) of the Act;

“parameter” means any of the factors shown in the first column of the Second Schedule;

“authorized officer” means any officer appointed under section 3 of the Act or any other officer to whom the Director General has delegated his power under section 49 of the Act;

“dilution” means any process making sewage less concentrated by adding water or other liquids from external sources other than liquids or materials used for treating the sewage;

“performance monitoring” means the routine monitoring of certain characteristics to provide an indication that a treatment process is functional and capable of treating the sewage;

“population equivalent” means the equivalent in terms of a fixed population of a varying or transient population or other activity, for example industrial or commercial contributing to flow to the sewerage treatment system;

“sewage treatment system” means any facility designed and constructed for the purpose of reducing the potential of the sewage to cause pollution.

(2) Words and expressions which are not defined in these Regulations shall have the same meaning as assigned to them in the Act.

Application

3. These Regulations shall apply to any premises which discharge sewage onto or into any soil, or into any inland waters or Malaysian waters, other than any housing or commercial development or both having a population equivalent of less than one hundred and fifty.

Notification for new source of sewage discharge or release

4. (1) No person shall, without prior written notification to the Director General, discharge or release or permit the discharge or release of sewage onto or into any soil, or into any inland waters or Malaysian waters.

(2) The written notification to the Director General referred to in subregulation (1) shall be in the form as specified in the First Schedule.

Provision and proper operation of sewage treatment system

5. (1) An owner or occupier of any premises shall operate and maintain a sewage treatment system in accordance with sound engineering practice for the treatment of sewage and ensure that all components of the sewage treatment system are in good working condition.

(2) In this regulation, “sound engineering practice” means the manner by which sewage treatment system is operated where the operational characteristics are maintained within the normal range of values commonly used for the treatment of sewage.

Competent person

6. (1) The operation of a sewage treatment system shall be supervised by a competent person.

(2) A competent person shall be a person who has been certified by the Director General that he is duly qualified to supervise the operation of a sewage treatment system.

(3) An owner or occupier of any premises shall ensure that a competent person is on duty at any time the sewage treatment system is in operation.

Acceptable conditions of sewage discharge

7. (1) No person shall discharge sewage which contains substances in concentration greater than the limits of—

- (a) Standard A, as shown in paragraph (i) of the Second Schedule, for new sewage treatment systems discharging into any inland waters within the catchment areas as specified in the Third Schedule;
- (b) Standard B, as shown in paragraph (i) of the Second Schedule, for new sewage treatment systems discharging into any other inland waters or Malaysian waters;
- (c) Standard A, as shown in paragraph (ii) of the Second Schedule, for existing sewage treatment systems discharging into any inland waters within the catchment areas as specified in the Third Schedule;
- (d) Standard B, as shown in paragraph (ii) of the Second Schedule, for existing sewage treatment systems discharging into any other inland waters or Malaysian waters;
- (e) Standard A, as shown in paragraph (iii) of the Second Schedule, for existing sewage treatment systems discharging into any inland waters within the catchment areas as specified in the Third Schedule; or
- (f) Standard B, as shown in paragraph (iii) of the Second Schedule, for existing sewage treatment systems discharging into any other inland waters or Malaysian waters.

(2) An owner or occupier of a premises shall submit a program to the Director General and implement such program to ensure that all existing sewage treatment systems, except the communal septic tanks and imhoff tanks—

- (a) which discharge sewage into any inland waters within the catchment areas as specified in the Third Schedule, comply with the Standard A as shown in paragraph (i) of the Second Schedule on or before 31 December 2016; and
- (b) which discharge sewage into any other inland waters or Malaysian waters, comply with the Standard B as shown in paragraph (i) of the Second Schedule on or before 31 December 2019.

(3) In this regulation—

- (a) “new sewage treatment system” means a sewage treatment built after the date of the coming into operation of these Regulations; and
- (b) “existing sewage treatment system” means a sewage treatment system approved between the period after January 1999, until immediately before the date of the coming into operation of these Regulations.

Licence to contravene acceptable conditions for sewage discharge

8. (1) An owner or occupier of premises may apply for a licence under subsection 25(1) of the Act to contravene the acceptable conditions of sewage discharge as specified in regulation 5.

(2) An application for a licence under subregulation (1) shall be made in accordance with the procedures as specified in the Environmental Quality (Licensing) Regulations 1977 [*P.U. (A) 198/1977*] and shall be accompanied by—

- (a) a report on sewage characterization study; and
- (b) a licence fee as specified in regulation 24.

Method of analysis and sampling of sewage

9. (1) An authorized officer may carry out an *in-situ* or *ex-situ* analysis of sewage using any instrument approved by the Director General.

(2) An analysis of sewage discharged or released onto or into any soil, or into any inland waters or Malaysian waters shall be carried out in accordance with any of the methods contained in the publications as specified in the Fourth Schedule.

(3) The analysis of sewage referred to in this regulation shall be based on grab samples.

(4) In this regulation—

- (a) “*in-situ* analysis” means the analysis conducted on a sewage sample that has not been removed from its location or conducted at the site where the sample was taken;
- (b) “*ex-situ* analysis” means the analysis conducted on a sewage sample that has been removed from its location and conducted at the different site from the site where the sample was taken; and
- (c) “grab sample” means a discrete individual sample taken within a period of time of less than 15 minutes.

Monitoring of sewage discharge

10. (1) An owner or occupier of a premises that discharges sewage onto or into any soil, or into any inland waters or Malaysian waters shall, at his own expense—

- (a) monitor the concentration of the parameters specified in the first column of the Second Schedule; and
- (b) install flow-meters, sampling equipment and recording equipment.

(2) The owner or occupier of the premises shall maintain a record of sewage discharge monitoring data in the format as specified in the Second Schedule.

(3) The owner or occupier of the premises shall submit the first record of sewage discharge monitoring data to the Director General within thirty days after the date of the coming into operation of these Regulations and the subsequent reports shall be submitted within thirty days after the end of the calendar month for the report of the previous month.

(4) The record of sewage discharge monitoring data shall also be made available for inspection by any authorized officer.

Point of discharge of sewage

11. (1) The point of discharge of sewage shall comply with the specifications as specified in the Sixth Schedule and shall be clearly indicated by the owner or occupier of a premises on the layout plans and engineering drawings certified by a professional engineer.

(2) An owner or occupier of the premises shall submit to the Director General the layout plans and engineering drawings referred to in subregulation (1) within thirty days prior to the commencement of the operations at the premises.

(3) Where an owner or occupier of the premises proposes to make any alteration or change to the location or position of the point of discharge or design of the outlet at the point of discharge of sewage, he or it shall notify the Director General within thirty days prior to the making of any alteration or change.

Prohibition against sewage discharge through by-pass

12. (1) No person shall discharge or cause or permit the discharge of sewage onto and into any soil, or into any inland waters or Malaysian waters through a by-pass.

(2) In this regulation, "by-pass" means any intentional diversion of sewage from any portion of a sewage treatment system.

Spill or accidental discharge of sewage

13. (1) In the event of the occurrence of any spill or accidental discharge of sewage from any premises, which either directly or indirectly gains or may gain access onto or into any soil, or into any inland waters or Malaysian waters, the owner or occupier of the premises shall immediately and not more than six hours from the time of the occurrence inform the Director General of the occurrence.

(2) An owner or occupier of the premises shall, to every reasonable extent, contain, cleanse or abate the spill or accidental discharge of sewage in a manner that satisfies the Director General.

(3) The Director General may in any particular case, if he considers it necessary to do so, specify the manner in which the spill or accidental discharge is to be contained, cleansed or abated and the owner or occupier of the premises shall comply with such specification.

(4) The Director General shall determine any damage caused by any spill or accidental discharge and may recover all costs and expenses from the owner or occupier of the premises.

(5) Where the Director General undertakes to cleanse or abate any spill or accidental discharge, he shall determine the full costs and expenses incurred and may recover such costs and expenses from the owner or occupier of the premises in accordance with the provisions of section 47 of the Act.

Prohibition against discharge of sludge into inland waters or Malaysian waters

14. No person shall discharge or cause or permit the discharge of any sludge that is generated from any sewage treatment system into any inland waters or Malaysian waters.

Restriction on the disposal of sludge onto land

15. No person shall discharge, or cause or permit the disposal of, sludge generated from any sewage treatment system onto or into any soil or surface of any land without the prior written permission of the Director General.

Application for disposal of sludge onto land

16. An application for a written permission of the Director General under regulation 17 shall be accompanied by the prescribed fee of five hundred ringgit.

Reporting changes in information furnished for purpose of application of licence

17. An applicant for a licence or for the renewal or transfer of such licence shall, within seven days of the occurrence of any material change in any information furnished in his application or furnished in writing pursuant to a request by the Director General under subsection 11(2) of the Act, give the Director General a report in writing of the change.

Display of licence

18. The holder of a licence shall display his licence, together with every document forming part of the licence, in conspicuous place in the principal building of his or its premises.

Continuance of existing conditions and restrictions in case of change in occupancy

19. Where a person becomes the occupier of a licensed premise in succession to another person who holds an unexpired licence in respect of such premises, then—

- (a) for a period of fourteen days after the change in occupancy; or
- (b) where the new occupier applies within the period specified in paragraph (a) for the transfer of the licence to him, for the period from the change in occupancy until the final determination of his application,

the conditions and restrictions of the licence shall be binding on the new occupier and shall be observed by him, notwithstanding that he is not yet the holder of the licence or that the licence may, during the period as specified in paragraph (a) or (b), as the case may be, have expired.

Maintenance of records

20. (1) An owner or occupier of a premises equipped with a sewage treatment system shall maintain records of the operation, maintenance and performance monitoring of the sewage treatment system.

(2) The records maintained under subregulation (1) shall be made available for inspection by any authorized officer.

Personnel training

21. (1) An owner or occupier of any premises equipped with a sewage treatment system—

- (a) shall ensure that his or its employees attend training on environmental requirements and on the best practices in the operation and maintenance of sewage treatment systems before they begin work;
- (b) shall ensure that the training for his or its employees include retraining on updates for new, revised and existing requirements and procedures; and
- (c) shall maintain records of training which shall include the training date, name and position of employee, training provider and a brief description of the training content.

(2) The record under paragraph (1)(c) shall be submitted to the Director General upon request and shall be made available for inspection by any authorized officer.

Provision for inspection

22. An owner or occupier of a premises who discharges sewage onto or into any soil, or into any inland waters or Malaysian waters shall, in connection with such discharge, install inspection chambers, flow-meters, sampling equipment, monitoring equipment, and measuring and recording equipment.

Owner or occupier to render assistance during inspection

23. An owner or occupier of any premises shall provide the Director General or any authorized officer every reasonable assistance and facility available at the premises, including labour, equipment, appliances and instruments that the Director General or authorized officer may require for the purpose of taking any action.

Fee for licence

24. (1) The fee for a licence, including the renewal and transfer of a licence, shall be five hundred ringgit and an additional sewage-related licence fee computed in accordance with the method as specified in the Seventh Schedule.

(2) The fee for a licence including the renewal and transfer of a licence of five hundred ringgit shall accompany the application and shall not be refundable.

(3) The sewage-related licence fee shall not become due until called for.

Waiver of fee

25. (1) If the Director General is satisfied that the research on sewage treatment or disposal that is being or is to be conducted on a licensed premises is likely to benefit the cause of environmental protection, he may, with the approval of the Minister, wholly, or partly, waive any sewage-related licence fee payable by virtue of regulation 24.

(2) In deciding the extent of the waiver, the Director General shall be guided by the consideration of the pollution loading of sewage being discharged or to be discharged.

Penalty

26. Any person who contravenes regulations 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 22 and 23 shall be guilty of an offence and shall be liable to a fine not exceeding one hundred thousand ringgit or to a term of imprisonment for a period not exceeding five years or to both and to a further fine not exceeding one thousand ringgit a day for every day that the offence is continued after the notice by the Director General requiring him to cease the act specified in the notice has been served upon him.

Revocation, transitional and savings provision

27. (1) The Environmental Quality (Sewage and Industrial Effluents) Regulations 1979 [*P.U. (A) 12/1979*] is revoked (hereinafter referred to as “the revoked Regulations”).

(2) Any application made under the revoked Regulations for a licence to contravene the acceptable conditions, renewal or transfer of the licence or written permission which are pending immediately before the date of the coming into operation of these Regulations shall, after the date of the coming into operation of these Regulations, be dealt with under the revoked Regulations and for such purposes it shall be treated as if these Regulations have not been made.

(3) All licences issued or written permission granted under the revoked Regulations shall, after the date of the coming into operation of these Regulations, continue to remain in full force and effect until the licence expires, is amended, suspended or canceled, or the written permission expires or is revoked under the revoked Regulations and for such purposes it shall be treated as if these Regulations have not been made.

(4) The provisions of the revoked Regulations relating to the acceptable conditions for sewage discharge shall continue to apply until twelve months after the date of the coming into operation of these Regulations where on the date of the coming into operation of these Regulations—

- (a) any work on any construction of any sewage treatment system has not commenced within twelve months from the date of the issuance of the written permission for its construction immediately before the date of the coming into operation of these Regulations;
- (b) any work on any construction of any sewage treatment has commenced but has not been completed immediately before the date of the coming into operation of these Regulations; or
- (c) any work on any construction of any sewage treatment system has been completed but has not begun its operation immediately before the date of the coming into operation of these Regulations.

(5) Where on the date of the coming into operation of these Regulations, any premises is discharging sewage into any inland waters which is not specified as a catchment area under the revoked Regulations immediately before the date of the coming into operation of these Regulations, the provisions of the revoked Regulations relating to acceptable conditions for sewage discharge shall continue to apply to such sewage discharge until twelve months after the date of the coming into operation of these Regulations.

(6) Notwithstanding anything contained in these Regulations, upon the date of the coming into operation of these Regulations, in relation to sewage discharge from any sewerage treatment system, other than communal septic tanks and imhoff tanks—

(a) the provisions of the revoked Regulations relating to acceptable conditions of sewage discharge as specified in paragraphs (ii) and (iii) of the Second Schedule for Standard A shall apply until 31 December 2016; and

(b) the provisions of the revoked Regulations relating to acceptable conditions of sewage discharge as specified in paragraphs (ii) and (iv) of the Second Schedule for Standard B shall apply until 31 December 2019.

(7) Any proceeding, whether civil or criminal, commenced under the revoked Regulations and are pending on the date of the coming into operation of these Regulations shall, on the date of the coming into operation of these Regulations, be continued and concluded under the revoked Regulations and for such purposes it shall be treated as if these Regulations have not been made.

FIRST SCHEDULE

(Regulation 4)

NOTIFICATION FOR NEW SOURCES OF SEWAGE DISCHARGE OR RELEASE

SECTION I

IDENTIFICATION OF PREMISES

1. (i) Name and address of premises:.....

.....

Mailing address of premises (if different from above):.....

.....

Telephone number: Fax number:.....

(ii) File reference number of Department of Environment (if applicable):

.....

SECTION II

DESCRIPTION OF PREMISES

2. (i) Description of premises/development project
(Please tick \checkmark in the relevant box below)

| | | | |
|---|--------------------------|--|--------------------------|
| (a) Housing/ Residential | <input type="checkbox"/> | (b) Commercial | <input type="checkbox"/> |
| (c) Industrial Estate | <input type="checkbox"/> | (d) Mixed (commercial plus residential) | <input type="checkbox"/> |
| (e) Mixed (industry plus commercial) | <input type="checkbox"/> | (f) Mixed (industry plus residential) | <input type="checkbox"/> |
| (g) Hotel | <input type="checkbox"/> | (h) Resort | <input type="checkbox"/> |
| (i) Others | <input type="checkbox"/> | | |

Please describe:

(ii) Size of premises/development project
(Please describe the size of the premise/development project in terms of population equivalent and other descriptors such as number of units, number of rooms, land area, etc. wherever relevant)

Population equivalent:.....

Number of units:.....

.....

Number of rooms:.....

.....

Land area (acres):.....

.....

Other information:.....

.....

SECTION III

INFORMATION ON SEWAGE TREATMENT SYSTEM

3. (i) Type of treatment system
(Please tick \checkmark in the relevant box below)

| | | | |
|--|--------------------------|----------------------|--------------------------|
| (a) Conventional Activated Sludge System | <input type="checkbox"/> | (b) Oxidation Ponds | <input type="checkbox"/> |
| (c) Extended Aeration Activated Sludge System | <input type="checkbox"/> | (d) Oxidation Ditch | <input type="checkbox"/> |
| (e) Rotating Biological Contactor | <input type="checkbox"/> | (f) Trickling Filter | <input type="checkbox"/> |

(g) Sequencing Batch Reactor

(h) Others

Please describe:.....
.....

SECTION IV

DISCHARGE INFORMATION

4. (i) Where is the treated sewage (i.e. the final sewage) discharged into?
(Please tick \checkmark in the relevant box below)

(a) Watercourse

Name of watercourse:.....

(b) Lake

Name of lake:.....

(c) Sea

Name of sea:.....

(d) Estuary

Name of estuary:.....

(e) Others

Please describe:.....

(ii) Location of discharge point

Latitude:..... Longitude:.....

SECTION V

DECLARATION

I, hereby declare that all information given in this form is to the best of my knowledge and belief true and correct.

Signature of responsible person:
.....

Name:

Designation:

Date:

(Affix official seal or stamp of company)

SECOND SCHEDULE

(Regulation 7)

ACCEPTABLE CONDITIONS OF SEWAGE DISCHARGE OF STANDARDS A AND B

(i) **New sewage treatment system**

| Parameter (1) | Unit (2) | Standard | |
|---|-------------|----------|----------|
| | | A (3) | B (4) |
| (a) Temperature | °C | 40 | 40 |
| (b) pH Value | — | 6.0-9.0 | 5.5-9.0 |
| (c) BOD ₅ at 20°C | mg/L | 20 | 50 |
| (d) COD | mg/L | 120 | 200 |
| (e) Suspended Solids | mg/L | 50 | 100 |
| (f) Oil and Grease | mg/L | 5.0 | 10.0 |
| (g) Ammoniacal Nitrogen (enclosed water body) | mg/L | 5.0 | 5.0 |
| (h) Ammoniacal Nitrogen (river) | mg/L | 10.0 | 20.0 |
| (i) Nitrate – Nitrogen (river) | mg/L | 20.0 | 50.0 |
| (j) Nitrate – Nitrogen (enclosed water body) | mg/L | 10.0 | 10.0 |
| (k) Phosphorous (enclosed water body) | mg/L | 5.0 | 10.0 |

Note:

Standard A is applicable to discharges into any inland waters within catchment areas listed in the Third Schedule, while Standard B is applicable to any other inland waters or Malaysian waters.

(ii) **Existing sewage treatment system (approved before January 1999)**

This category refers to all sewerage treatment systems which were approved before the Guidelines for Developers: Sewerage Treatment Vol. IV, 2nd edition and were enforced by the Department of Sewerage Services, Ministry of Housing and Local Government, beginning January 1999. Below are the acceptable conditions for sewage discharge according to type of sewage treatment systems:

| Parameter (1) | Unit (2) | Type of Sewage Treatment System | | | | | | | | | |
|------------------------------|-------------|---------------------------------|----------|-------------|----------|----------------|----------|----------------|-----------|-------------------|-----------|
| | | Communal Septic Tank | | Imhoff Tank | | Aerated Lagoon | | Oxidation Pond | | Mechanical System | |
| | | A (3) | B (4) | A (5) | B (6) | A (7) | B (8) | A (9) | B (10) | A (11) | B (12) |
| (a) BOD ₅ at 20°C | mg/L | 200 | 200 | 175 | 175 | 100 | 100 | 120 | 120 | 60 | 60 |
| (b) COD | mg/L | — | — | — | — | 300 | 300 | 360 | 360 | 180 | 240 |
| (c) Suspended Solids | mg/L | 180 | 180 | 150 | 150 | 120 | 120 | 150 | 150 | 100 | 120 |
| (d) Oil and Grease | mg/L | — | — | — | — | — | — | — | — | 20 | 20 |
| (e) Ammoniacal Nitrogen | mg/L | — | — | 100 | 100 | 80 | 80 | 70 | 70 | 60 | 60 |

Note:

1. Standard A is applicable to discharge into any inland waters within catchment areas listed in the Third Schedule, while Standard B is applicable to any other inland waters or Malaysian waters.
2. These standards are applicable to the sewerage treatment systems that may have been constructed prior to 1999 based upon approval given by other agency, other than the Department of Sewerage Services, Ministry of Housing and Local Government.

(iii) **Existing sewerage treatment system (approved after January 1999)**

All sewerage treatment systems which were approved after the Guidelines for Developers: Sewerage Treatment Vol. IV, 2nd edition and were enforced by the Department of Sewerage Services, Ministry of Housing and Local Government, beginning January 1999 and up to the date of coming into operation of these Regulations.

| | <i>Parameter</i> | <i>Unit</i> | <i>Standard</i> | |
|-----|--------------------------|-------------|-----------------|----------|
| | | | <i>A</i> | <i>B</i> |
| (a) | BOD ₅ at 20°C | mg/L | 20 | 50 |
| (b) | COD | mg/L | 120 | 200 |
| (c) | Suspended Solids | mg/L | 50 | 100 |
| (d) | Oil and Grease | mg/L | 20 | 20 |
| (e) | Ammoniacal Nitrogen | mg/L | 50 | 50 |

Note:

Standard A is applicable to discharge into any inland waters within catchment areas listed in the Third Schedule, while Standard B is applicable to any other inland waters or Malaysian waters.

THIRD SCHEDULE

(Regulation 7)

LIST OF CATCHMENT AREAS WHERE STANDARD A APPLIES

1. The catchment areas referred to in these Regulations shall be the areas upstream of surface or above subsurface water supply intakes, for the purpose of human consumption including drinking water.
2. For the purpose of these Regulations, the water supply intakes shall include the public water supply intakes specified below:

(1) **The State of Johor**

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | (2) | (3) | |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 40' 12" | 2° 39' 29" | Sg. Muar | Segamat |
| 102° 55' 37" | 2° 32' 57" | Sg. Segamat | Segamat |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 03' 10" | 2° 28' 02" | Sg. Jauseh | Segamat |
| 102° 03' 10" | 2° 28' 02" | Sg. Jauseh | Segamat |
| 102° 39' 57" | 2° 25' 29" | Sg. Jementah | Segamat |
| 102° 49' 55" | 2° 21' 01" | Sg. Muar | Muar |
| 102° 47' 11" | 2° 18' 11" | Sg. Muar | Muar |
| 102° 48' 40" | 2° 14' 59" | Sg. Muar | Muar |
| 102° 44' 58" | 2° 12' 04" | Sg. Muar | Muar |
| 102° 44' 03" | 2° 10' 49" | Sg. Muar | Muar |
| 102° 05' 03" | 1° 53' 09" | Sg. Sembrong/ Sg. Bekok Transf | Batu Pahat |
| 103° 32' 24" | 2° 12' 03" | Sg. Kahang | Kluang |
| 103° 26' 55" | 2° 05' 27" | Sg. Kahang | Kluang |
| 103° 40' 14" | 2° 35' 15" | Labong Dam | Mersing |
| 103° 47' 31" | 2° 30' 22" | Conggok Dam | Mersing |
| 103° 39' 22" | 2° 23' 13" | Sg. Lenggor | Mersing |
| 103° 54' 07" | 2° 02' 11" | Sg. Sedili Besar | Mersing |
| 103° 51' 16" | 2° 16' 27" | Bekas Lombong | Mersing |
| 104° 02' 52" | 1° 53' 38" | Sg. Gembut | Kota Tinggi |
| 103° 49' 50" | 1° 49' 52" | Sg. Pelepah | Kota Tinggi |
| 103° 43' 19" | 1° 48' 01" | Sg. Linggiu | Kota Tinggi |
| 103° 40' 05" | 1° 48' 14" | Sg. Sayong | Kota Tinggi |
| 103° 40' 05" | 1° 48' 14" | Sg. Sayong | Kota Tinggi |
| 103° 35' 28" | 1° 51' 28" | Sg. Penggeli | Kota Tinggi |
| 104° 08' 08" | 1° 44' 39" | Sg. Sedili Kecil | Kota Tinggi |
| 104° 12' 13" | 1° 32' 30" | Lebam Dam | Kota Tinggi |
| 103° 46' 58" | 1° 44' 47" | Sg. Johor | Kota Tinggi |
| 103° 27' 09" | 1° 43' 12" | Sg. Pontian Besar | Johor Bahru |
| 103° 54' 43" | 1° 33' 22" | Layang Dam | Johor Bahru |
| 103° 50' 14" | 1° 44' 07" | Sg. Johor | Johor Bahru |
| 103° 21' 54" | 2° 03' 35" | Sg. Sembrong | Kluang |
| 103° 11' 01" | 1° 58' 23" | Sembrong Dam | Kluang |
| 103° 17' 47" | 1° 49' 33" | Sg. Benut | Kluang |
| 103° 03' 10" | 2° 00' 57" | Sg. Bekok Transf | Batu Pahat |
| 104° 03' 12" | 2° 00' 54" | Sg. Bekok Transf | Batu Pahat |
| 103° 05' 57" | 1° 52' 33" | Sg. Sembrong | Batu Pahat |
| 102° 44' 03" | 2° 10' 49" | Sg. Muar | Muar |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 44' 05" | 2° 10' 48" | Sg. Muar | Muar |
| 102° 44' 05" | 2° 10' 48" | Sg. Muar | Muar |
| 102° 34' 56" | 2° 19' 37" | Ledang Dam | Muar |
| 102° 50' 09" | 2° 31' 07" | Sg. Segamat | Segamat |
| 102° 50' 17" | 2° 31' 12" | Sg. Segamat | Segamat |
| 102° 49' 59" | 2° 30' 55" | Sg. Segamat | Segamat |
| 102° 03' 11" | 2° 28' 01" | Sg. Jauseh | Segamat |
| 103° 52' 24" | 1° 44' 42" | Sg. Johor | PUB Singapura |
| 103° 39' 40" | 1° 33' 30" | Sg. Skudai | PUB Singapura |
| 103° 34' 14" | 1° 32' 30" | Pulai Dam | PUB Singapura |
| 103° 44' 24" | 1° 33' 00" | Sg. Tebrau | PUB Singapura |

(2) The State of Pahang

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 27' 00" | 3° 41' 00" | Sg. Pahang | Batu Sawar |
| 102° 37' 00" | 3° 26' 00" | Sg. Pahang | Bukit Kertau |
| 102° 36' 00" | 3° 30' 00" | Sg. Pahang | Chenor |
| 102° 39' 00" | 3° 44' 45" | Sg. Jempol | Ulu Jempol |
| 102° 40' 00" | 3° 41' 00" | Sg. Jempol | Jengka 3-7 |
| 102° 51' 00" | 3° 38' 00" | Sg. Liut | Kg. New Zealand |
| 102° 39' 00" | 3° 40' 00" | Sg. Jempol | Simpang Jengka |
| 102° 40' 00" | 3° 47' 00" | Sg. Jerik | Sg. Jerik Pump House |
| 102° 56' 00" | 3° 20' 00" | Sg. Mentiga | Cini |
| 192° 59' 00" | 2° 56' 00" | Sg. Keratung | Paluh Rumbek |
| 102° 32' 48" | 3° 07' 63" | Sg. Aur | Aur |
| 102° 51' 27" | 2° 50' 51" | Sg. Keratung | Keratung |
| 103° 23' 00" | 3° 30' 15" | Sg. Pahang | Kg. Mengkasar |
| 103° 10' 00" | 3° 33' 00" | Sg. Pahang | Lepar/Pulau Manis |
| 103° 26' 00" | 3° 08' 00" | Ground Water | Nenasi |
| 103° 23' 30" | 3° 30' 54" | Sg. Pahang | Peramu |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 103° 19' 00" | 3° 35' 00" | Sg. Pahang | Sekor |
| 101° 53' 00" | 3° 41' 00" | Sg. Bilut | Bilut |
| 101° 45' 00" | 3° 44' 00" | Sg. Hijau | Bukit Fraser Pump House |
| 101° 49' 00" | 3° 56' 00" | Sg. Cheroh | Cheroh |
| 101° 58' 00" | 3° 55' 00" | Sg. Keloi | Dong |
| 101° 49' 00" | 4° 19' 00" | Sg. Jelai | Kuala Medang Pump House |
| 102° 01' 00" | 3° 42' 00" | Sg. Pertang | Lembah Klau |
| 101° 51' 30" | 3° 45' 24" | Sg. Bilut | Raub |
| 101° 59' 00" | 3° 44' 30" | Sg. Chalit | Sg. Chalit Pump House |
| 102° 00' 00" | 3° 46' 00" | Sg. Kelau | Sg. Klau |
| 101° 48' 30" | 3° 44' 00" | Sg. Teras | Teras |
| 101° 47' 45" | 4° 12' 30" | Sg. Koyan | Sg. Koyan Pump House |
| 103° 29' 36" | 3° 48' 24" | Ground Water | Rompin |
| 103° 26' 35" | 2° 37' 15" | Empangan Sg. Anak Endau | Loji Air Seladang |
| 102° 10' 30" | 3° 31' 00" | Sg. Semantan | Bukit Damar |
| 102° 18' 00" | 3° 18' 00" | Sg. Teriang | Bukit Mendi |
| 102° 30' 00" | 2° 18' 00" | Sg. Bera | Bera |
| 102° 33' 00" | 3° 24' 00" | Sg. Pahang | Charuk Puting |
| 102° 22' 00" | 2° 45' 00" | Sg. Kerau | Jenderak Utara |
| 102° 26' 00" | 2° 30' 00" | Sg. Pahang | Lubuk Kawah |
| 102° 23' 00" | 3° 31' 00" | Sg. Semantan | Mentakab |
| 101° 24' 30" | 3° 14' 30" | Sg. Teriang | Triang (Baru) |
| 101° 55' 00" | 3° 29' 00" | Sg. Benus | Bt. 4, Jln. KL/ Bentong |
| 101° 53' 00" | 3° 20' 00" | Sg. Benus | Janda Baik |
| 102° 03' 00" | 3° 26' 00" | Sg. Temelong | Karak |
| 101° 53' 00" | 3° 41' 00" | Sg. Bilut | Lurah Bilut |
| 102° 07' 10" | 3° 15' 20" | Sg. Gapoi | Sg. Gapoi |
| 101° 54' 00" | 3° 39' 00" | Sg. Penjuring | Sg. Penjuring |
| 102° 00' 30" | 3° 33' 00" | Sg. Kelau | Sg. Sertik |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|-------------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 23' 30" | 4° 31' 20" | Sg. Bertam | Brinchang |
| 101° 25' 00" | 4° 34' 00" | Sg. Perlong | Kuala Terla |
| 101° 21' 00" | 4° 27' 00" | Sg. Jasin | Lubok Tamang |
| 101° 24' 10" | 4° 24' 35" | Sg. Bertam | Takong Empangan Bertam Valley |
| 101° 23' 50" | 4° 26' 20" | Sg. Luchut | Takong Empangan Habu |
| 101° 24' 20" | 3° 34' 40" | Sg. Ikan | Takong Empangan Kg. Raja |
| 101° 21' 40" | 4° 24' 20" | Sg. Ringlet | Takong Empangan Ringlet |
| 101° 25' 3" | 4° 30' 02" | Sg. Triangkap | Takong Empangan Tringkap |
| 102° 11' 00" | 4° 00' 00" | Sg. Cheka | Batu Balai |
| 102° 21' 42" | 3° 57' 30" | Sg. Pahang | Batu Embun |
| 102° 28' 00" | 3° 53' 00" | Sg. Tekam | Jengka 8-15 |
| 102° 19' 00" | 4° 03' 00" | Sg. Retang | Padang Piol |
| 102° 31' 48" | 3° 52' 00" | Sg. Tekam | Sg. Tekam |
| 102° 33' 42" | 3° 50' 00" | Sg. Tekam | Sg. Tekam Utara |
| 102° 16' 00" | 4° 05' 00" | Sg. Jelai | Mela |
| 102° 11' 00" | 4° 12' 00" | Sg. Jelai | Bt. 9 Halt |
| 101° 58' 00" | 4° 02' 00" | Sg. Lipis | Benta |
| 101° 59' 00" | 4° 14' 25" | Sg. Jelai | Bukit Betong |
| 102° 02' 10" | 4° 10' 20" | Sg. Lipis | Kuala Lipis |
| 102° 01' 00" | 4° 38' 00" | Sg. Merapoh | Merapoh Pump House |
| 102° 06' 00" | 4° 19' 00" | Sg. Temau | Sg. Temau Pump House |
| 103° 22' 00" | 3° 51' 00" | Sg. Jabor | Alor Batu Pump House |
| 103° 21' 00" | 4° 01' 00" | Sg. Ular | Baru Sg. Ular |
| 103° 12' 00" | 3° 53' 00" | Sg. Riau | Bukit Goh |
| 103° 15' 34" | 3° 49' 42" | Sg. Kuantan | Bukit Ubi/Kg. Kobat |
| 103° 15' 00" | 3° 15' 00" | Sg. Kuantan | Kg. Padang |
| 103° 6' 00" | 3° 33' 00" | Sg. Lepar | Lepar Hilir |
| 103° 12' 00" | 3° 53' 00" | Sg. Kuantan | Pasir Kemudi |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | (2) | (3) | |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 103° 13' 00" | 3° 53' 00" | Sg. Berkelah | Paya Bungor |
| 103° 21' 00" | 3° 50' 00" | Sg. Kuantan | Semambu |
| 103° 02' 00" | 3° 56' 0" | Sg. Kuantan | Sg. Lembing |

(3) The State of Kelantan

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | (2) | (3) | |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 14' 40" | 6° 06' 50" | Kg. Puteh Wellfield | Kampong Puteh |
| 102° 16' 40" | 6° 05' 20" | Kubang Kerian Wellfield | Kubang Kerian |
| 102° 17' 40" | 6° 09' 40" | Pengkalan Chepa Wellfield | Pengkalan Chepa |
| 102° 14' 15" | 6° 05' 50" | Pintu Geng Wellfield | Pintu Geng |
| 102° 16' 15" | 6° 08' 30" | Tg. Mas Wellfield | Tanjung Mas |
| 102° 16' 44" | 6° 05' 18" | Kubang Kerian Wellfield | Chicha |
| 102° 15' 57" | 6° 03' 53" | Kg. Seribong Wellfield | Chicha |
| 102° 15' 03" | 6° 04' 41" | Kg. Chicha Wellfield | Chicha |
| 102° 15' 38" | 6° 05' 12" | Kg. Pasir Hor Wellfield | Chicha |
| 102° 16' 48" | 6° 04' 01" | Kg. Pasir Tumboh Wellfield | Chicha |
| 102° 15' 44" | 6° 04' 29" | Kg. Padang Penyadat Wellfield | Chicha |
| 102° 17' 08" | 6° 05' 38" | Kg. Kenali Wellfield | Chicha |
| 102° 05' 20" | 6° 12' 30" | Wakaf Bharu Wellfield | Wakaf Bharu |
| 102° 10' 20" | 6° 10' 00" | Wakaf Bharu Wellfield | Wakaf Bharu |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 11' 50" | 6° 07' 00" | Kg. Sedar Wellfield | Kg. Sedar |
| 102° 09' 23" | 6° 02' 50" | Sg. Kelantan | Kelar |
| 101° 58' 00" | 6° 01' 10" | Rantau Panjang Wellfield | Rantau Panjang |
| 102° 08' 31" | 6° 02' 15" | Sg. Kelantan | Lemal |
| 102° 20' 40" | 6° 02' 30" | Kg. Chap Wellfield | Kg. Chap |
| 102° 23' 10" | 5° 00' 50" | Kg. Chap Wellfield | Kg. Chap |
| 102° 24' 00" | 6° 02' 50" | Jelawat Wellfield | Jelawat |
| 102° 24' 50" | 5° 49' 45" | Sg. Rasau | Wakaf Bunut |
| 102° 13' 08" | 5° 31' 17" | Sg. Kelantan | Tualang |
| 102° 13' 40" | 5° 28' 20" | Sg. Lebir | Pahi |
| 102° 12' 20" | 5° 29' 30" | Sg. Lebir | Manik Urai |
| 102° 08' 40" | 5° 41' 50" | Sg. Kelantan | Kg. Bandar Kemubu |
| 102° 05' 45" | 5° 55' 50" | Sg. Muring | Kemahang |
| 102° 09' 20" | 5° 47' 20" | Sg. Kelantan | Bukit Remah |
| 102° 05' 45" | 5° 55' 50" | Sg. Jegor | Bendang Nyior |
| 101° 58' 30" | 5° 50' 00" | Sg. Jedok | Batu Gajah |
| 102° 05' 30" | 5° 41' 00" | Sg. Kerila | Kuala Tiga |
| 101° 53' 25" | 5° 46' 40" | Sg. Lanas | Air Lanas |
| 101° 50' 30" | 5° 42' 00" | Sg. Pergau | Jeli |
| 101° 50' 10" | 5° 29' 20" | Sg. Terang | Kuala Balah |
| 102° 00' 00" | 5° 18' 20" | Sg. Stong | Stong |
| 102° 04' 14" | 5° 04' 50" | Sg. Galas | Limau Kasturi |
| 102° 18' 29" | 4° 57' 40" | Sg. Lebir | Aring |
| 102° 02' 39" | 5° 08' 50" | Sg. Nenggiri | Bertam baru |
| 102° 10' 36" | 4° 53' 56" | Sg. Ciku | Ciku |
| 101° 59' 07" | 4° 50' 35" | Sg. Ketil | Sg. Ketil |
| 101° 47' 25" | 4° 54' 01" | Sg. Betis | Panggung Lalat |

(4) The State of Perlis

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 09' 14" | 6° 20' 11" | Anak Sungai | Terusan Arau |
| 100° 16' 15" | 6° 25' 15" | Telaga Gerek/ Mada Canal | Arau |
| 100° 19' 00" | 6° 31' 25" | Telaga Gerek | Felda Chuping |
| 100° 12' 00" | 6° 42' 30" | Sungai Rasa | Wang Kelian |
| 100° 12' 00" | 6° 34' 00" | Empangan Timah Tasoh | Timah Tasoh |
| 100° 14' 30" | 6° 33' 15" | Telaga Gerek | Semadong |

(5) The State of Kedah

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 25' 48.3" | 6° 12' 20.5" | Ter. MADA Utara | Alor Star |
| 100° 27' 34.8" | 6° 13' 11.9" | Sg. Padang Terap | Jitra |
| 100° 36' 56.0" | 6° 14' 48.0" | Kuala Nerang | Kuala Nerang |
| 100° 41' 18.0" | 6° 20' 27.5" | Sg. Ahning | Padang Sanai |
| 100° 45' 10.5" | 6° 03' 16.3" | Sg. Muda | Nami |
| 100° 29' 2.47" | 5° 55' 29.1" | Ter. MADA Selatan | Bukit Jenun |
| 100° 43' 53.8" | 6° 00' 05.8" | Sg. Muda | Lubuk Merbau |
| 100° 26' 6.2" | 6° 23' 48.0" | Sg. Temin | Changloon |
| 100° 38' 43.4" | 5° 54' 26.2" | Sg. Muda | Jeneri |
| 100° 29' 47.3" | 5° 34' 13.8" | Sg. Muda | Pinang Tunggal |
| 100° 29' 59.6" | 5° 34' 13.8" | Sg. Muda | Pinang Tunggal |
| 100° 37' 13.8" | 5° 49' 26.8" | Sg. Muda | Jeniang |
| 100° 26' 28.3" | 5° 46' 04.7" | Gunung Jerai | Tupah |
| 100° 24' 54.1" | 5° 44' 36.6" | Gunung Jerai | Merbok |
| 100° 41' 37.8" | 5° 47' 40.0" | Sg. Chepir | Sik |
| 100° 30' 24.5" | 5° 34' 15.6" | Sg. Muda | Kulim Hi-Tech |
| 100° 30' 24.5" | 5° 34' 15.6" | Sg. Muda | Bukit Selambau |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 29' 47.3" | 5° 39' 39.7" | Sg. Ketil | Baling |
| 100° 29' 59.6" | 5° 40' 23.0" | Gunung Inas | Baling |
| 100° 37' 13.8" | 5° 40' 52.4" | Gunung Inas | Baling |
| 100° 26' 28.3" | 5° 36' 30.6" | Kuala Ketil | Kuala Ketil |
| 100° 24' 54.1" | 5° 43' 24.8" | Sg. Muda | Teloi Kanan |
| 100° 29' 47.3" | 5° 19' 40.7" | Sg. Kerian | Mahang |
| 100° 29' 59.6" | 5° 28' 57.0" | Sg. Sedim | Bikan |
| 100° 37' 13.8" | 5° 21' 50.5" | Sg. Kulim | Sg. Ular |
| 100° 26' 28.3" | 5° 08' 18.0" | Sg. Krian | Lubuk Buntar |
| 100° 29' 47.3" | 6° 22' 45.8" | Sg. Raga | Langkawi |
| 100° 29' 59.6" | 6° 22' 47.3" | Sg. Melaka | Langkawi |
| 100° 37' 13.8" | 6° 21' 09.4" | Empangan Malut | Langkawi |
| 100° 26' 28.3" | 6° 15' 16.5" | Sg. Teluk Bujur | Pulau Tuba |
| 100° 24' 54.1" | 6° 20' 24.3" | Ter. MADA, Arau | Langkawi |
| 100° 11' 10" | 6° 20' 26" | Mada Canal (Arau Canal) | Sg. Baru |

(6) The State of Perak

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 55' 15" | 4° 56' 25" | Sg. Biong | Sauk |
| 100° 57' 04" | 4° 48' 04" | Sg. Perak | Kota Lama Kiri |
| 100° 51' 33" | 4° 45' 04" | Sg. Kangsar | Pdg. Rengas |
| 100° 51' 23" | 4° 36' 17" | Sg. Guar | Manong |
| 101° 04' 33" | 4° 49' 21" | Sg. Kerbau | Sg. Siput |
| 101° 04' 10" | 4° 47' 42" | Sg. Bemban | Sg. Siput |
| 101° 04' 19" | 4° 59' 00" | Sg. Kucha | Felda Lasah |
| 101° 10' 45" | 4° 54' 40" | Sg. Kerbau | Perlop I |
| 101° 01' 09" | 5° 42' 36" | Sg. Kuak | Pengkalan Hulu |
| 101° 00' 20" | 5° 45' 33" | Sg. Semangga | Pengkalan Hulu |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 04' 11" | 5° 42' 00" | Sg. Kuak | Legang Nenering |
| 101° 01' 02" | 5° 38' 08" | Sg. Kajang | Klian Intan |
| 101° 08' 03" | 5° 31' 51" | Sg. Berok | Kg. Jong |
| 101° 21' 02" | 5° 33' 10" | Sg. Perak-Tasek Temenggor | Pulau Banding |
| 101° 12' 43" | 5° 25' 48" | Sg. Perak-Tasek Bersia | Grik V |
| 101° 09' 45" | 5° 21' 40" | Sg. Perak | Air Ganda |
| 101° 03' 11" | 5° 18' 55" | Sg. Pulau | Lawin Kinayat |
| 101° 00' 41" | 5° 11' 43" | Sg. Ibol | Sumpitan |
| 100° 57' 38" | 5° 06' 55" | Sg. Lenggong | Lenggong |
| 100° 28' 38" | 5° 03' 54" | Terusan Besar | Jalan Baru |
| 100° 39' 06" | 4° 57' 38" | Terusan Selinsing | Gunung Semanggol |
| 100° 46' 15" | 4° 52' 45" | Sg. Ranting | Taiping Headworks |
| 100° 46' 15" | 4° 52' 53" | Sg. Anak Ranting | Taiping Headworks |
| 100° 46' 29" | 4° 50' 39" | Sg. Batu Teguh | Taiping Headworks |
| 100° 46' 16" | 4° 50' 06" | Sg. Tupai | Taiping Headworks |
| 100° 45' 53" | 4° 52' 05" | Sg. Air Terjun | Taiping Headworks |
| 100° 49' 23" | 5° 14' 47" | Sg. Seputeh | Sungai Bayor |
| 100° 51' 25" | 5° 15' 40" | Sg. Selama | Selama |
| 100° 52' 30" | 5° 09' 10" | Sg. Klian Gunung | Kelian Gunung |
| 100° 50' 30" | 5° 00' 55" | Sg. Air Hitam | Jelai |
| 100° 49' 58" | 4° 54' 27" | Sg. Kurau | Batu Kurau |
| 100° 45' 25" | 4° 41' 27" | Sg. Terong | Terong |
| 100° 42' 56" | 4° 37' 48" | Sg. Wang | Air Terjun |
| 100° 46' 07" | 4° 37' 38" | Sg. Nyior | Air Terjun |
| 100° 46' 10" | 4° 36' 32" | Sg. Pulai | Air Terjun |
| 100° 46' 13" | 4° 48' 47" | Sg. Larut | Air Kuning |
| 100° 44' 45" | 4° 48' 41" | Sg. Buluh | Air Kuning |
| 101° 09' 41" | 4° 22' 02" | Sg. Kampar | Sg. Kampar |
| 101° 10' 38" | 4° 21' 24" | Sg. Palai | Sg. Palai |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 02' 42" | 4° 37' 45" | Sg. Tapah | Sg. Tapah |
| 100° 54' 57" | 4° 29' 17" | Sg. Perak | Sultan Idris Shah II |
| 101° 12' 03" | 4° 40' 07" | Sg. Kinta | Ulu Kinta |
| 100° 53' 00" | 4° 19' 19" | Sg. Perak | Teluk Kepayang |
| 100° 53' 00" | 4° 24' 19" | Sg. Perak | Kg. Paloh |
| 100° 54' 12" | 4° 22' 40" | Sg. Perak | BB Seri Iskandar |
| 100° 47' 00" | 4° 31' 11" | Sg. Lichin | Beruas |
| 100° 47' 07" | 4° 32' 29" | Sg. Beruas | Beruas |
| 100° 56' 11" | 4° 11' 02" | Sg. Perak | Kampung Gajah |
| 101° 19' 40" | 4° 17' 25" | Sg. Btg. Padang | Bukit Temoh |
| 101° 21' 45" | 4° 13' 04" | Sg. Who | Bukit Temoh |
| 101° 31' 48" | 3° 47' 52" | Sg. Behrang | Sg. Dara |
| 101° 16' 27" | 3° 56' 38" | Sg. Sungkai | Felda Gunung Besout |
| 101° 25' 39" | 3° 57' 17" | Sg. Trolak | Trolak Selatan |
| 101° 25' 39" | 3° 57' 17" | Sg. Trolak | Trolak Timor |
| 101° 24' 41" | 4° 00' 54" | Sg. Tesong | Felda Sg. Klah |
| 101° 30' 28" | 3° 53' 30" | Sg. Gelinting | Tg. Malim (Proton City) |

(7) The State of Penang

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|---|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 16' 10" | 5° 24' 00" | Sg. Air Hitam | Pulau Pinang |
| 100° 15' 56" | 5° 24' 13" | Sg. Air Itam (Sg. Tepi) | Pulau Pinang untuk Kolam Air, Air Itam |
| 100° 16' 58" | 5° 26' 25" | Sg. Air Terjun | Pulau Pinang |
| 100° 14' 41" | 5° 26' 53" | Sg. Batu Ferringhi | Pulau Pinang |
| 100° 14' 28" | 5° 26' 51" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|---|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 14' 20" | 5° 27' 17" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 42" | 5° 26' 52" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 26' 55" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 27' 12" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 27' 27" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 17' 32" | 5° 26' 04" | Highlands | Pulau Pinang |
| 100° 17' 28" | 5° 25' 02" | Highlands | Bekalan untuk Kolam Air, Air Terjun |
| 100° 16' 23" | 5° 27' 39" | Sg. Kecil | Pulau Pinang |
| 100° 16' 18" | 5° 27' 44" | Sg. Kecil | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 16' 37" | 5° 27' 23" | Sg. Klean | Pulau Pinang |
| 100° 15' 49" | 5° 26' 23" | Talian Kuasa Sg. Klean | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 13' 33" | 5° 24' 15" | Sg. Pinang Barat | Pulau Pinang |
| 100° 13' 40" | 5° 24' 16" | Sg. Pinang Barat | Bekalan untuk Kolam Air Balik Pulau |
| 100° 14' 17" | 5° 28' 15" | Anak Sg. Sebelah 3Vs | Pulau Pinang |
| 100° 16' 33" | 5° 27' 41" | Sg. Siru | Pulau Pinang |
| 100° 16' 45" | 5° 24' 55" | Anak Sg. Tats | Pulau Pinang |
| 100° 14' 55" | 5° 25' 09" | Kolam Air Tiger Hill | Pulau Pinang untuk Kawasan Bukit Bendera |
| 100° 15' 51" | 5° 23' 46" | Empangan Air Itam | Pulau Pinang untuk Kolam Air, Air Itam |
| 100° 30' 13" | 5° 26' 05" | Sg. Kulim | Seberang Perai Utara |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--|-----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 29' 15" | 5° 33' 24" | Sg. Muda | Seberang Perai Utara |
| 100° 29' 52" | 5° 22' 33" | Kolam Air Bukit Berapit/ Sg Mengkuang | Seberang Perai Tengah |
| 100° 30' 39" | 5° 21' 02" | Kolam Air Cherok Tok Kun | Seberang Perai Tengah |
| 100° 32' 11" | 5° 09' 35" | Kolam Air Bukit Panchor | Seberang Perai Selatan |
| 100° 17' 00" | 5° 25' 00" | Sg. Air Putih | Pulau Pinang Air Hitam |
| 100° 14' 41" | 5° 26' 53" | Sg. Batu Ferringhi | Pulau Pinang |
| 100° 14' 35" | 5° 28' 00" | Sg. Batu Ferringhi | Pulau Pinang Batu Ferringhi |
| 100° 34' 00" | 5° 10' 00" | Sg. Kecil Hilir | Seberang Perai Selatan |
| 100° 32' 00" | 5° 09' 00" | Simpang Hantu | Seberang Perai Selatan |
| 100° 13' 00" | 5° 26' 30" | Empangan Teluk Bahang | Pulau Pinang |

(8) The State of Selangor

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 04' 48" | 3° 43' 48" | Sg. Bernam | Sabak Bernam |
| 101° 40' 06" | 3° 27' 54" | Sg. Batang Kali | Hulu Selangor |
| 101° 23' 54" | 3° 40' 30" | Sg. Dusun | Hulu Selangor |
| 101° 26' 48" | 3° 44' 24" | Sg. Bernam | Hulu Selangor |
| 101° 25' 30" | 3° 37' 30" | Sg. Tenggi | Hulu Selangor |
| 101° 35' 42" | 3° 38' 54" | Sg. Inki | Hulu Selangor |
| 101° 41' 30" | 3° 36' 42" | Sg. Gerachi | Hulu Selangor |
| 101° 34' 00" | 3° 24' 30" | Sg. Darah | Hulu Selangor |
| 101° 26' 48" | 3° 24' 00" | Sg. Selangor/ Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|---|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 10' 30" | 3° 32' 30" | Sg. Sireh | Kuala Selangor |
| 101° 41' 10" | 3° 16' 05" | Sg. Batu/Empangan Batu | Gombak |
| 101° 40' 00" | 3° 17' 00" | Sg. Kanching | Gombak |
| 101° 44' 00" | 3° 18' 30" | Sg. Gombak | Gombak |
| 101° 36' 50" | 3° 14' 15" | Sg. Buloh | Gombak |
| 101° 44' 18" | 3° 17' 54" | Sg. Rumput | Gombak |
| 101° 37' 36" | 3° 14' 18" | Sg. Keroh | Gombak |
| 101° 33' 00" | 3° 01' 05" | Sg. Pusu | Gombak |
| 101° 48' 06" | 3° 09' 42" | Sg. Ampang | Gombak |
| 101° 29' 00" | 3° 10' 00" | Sg. Subang/Empangan Subang | Kelang |
| 101° 47' 18" | 3° 04' 42" | Sg. Langat/Empangan Langat | Hulu Langat |
| 101° 46' 36" | 3° 02' 36" | Sg. Langat/Empangan Langat | Hulu Langat |
| 101° 47' 12" | 3° 05' 48" | Sg. Serai | Hulu Langat |
| 101° 53' 25" | 3° 13' 15" | Sg. Lolo | Hulu Langat |
| 101° 53' 15" | 3° 12' 50" | Sg. Pangsoon | Hulu Langat |
| 101° 45' 36" | 3° 14' 16" | Sg. Klang/Empangan Klang Gates | Kuala Lumpur |
| 101° 40' 48" | 2° 50' 48" | Sg. Langat/Empangan Langat | Kuala Langat |
| 101° 43' 05" | 2° 46' 45" | Sg. Labu | Sepang |
| 101° 44' 20" | 2° 53' 20" | Sg. Semenyih/ Empangan Semenyih | Sepang |
| 101° 25.2' 15.9" | 3° 23.2' 19.9" | Batang Berjantai/Sg. Selangor | Kuala Selangor |
| 101° 26' 20.5" | 3° 23' 10.2" | Batang Berjantai/Sg. Selangor | Kuala Selangor |
| 101° 38' 7.7" | 3° 30' 30.4" | Rasa/Sg. Selangor | Kuala Selangor |
| 101° 44' 10" | 2° 53' 30" | Sg. Semenyih | Sepang |
| 101° 42' 50" | 2° 53' 23" | Sg. Semenyih | Sepang |
| 101° 48' 10" | 3° 09' 15" | Sg. Ampang | Gombak |
| 101° 41' 56" | 3° 28' 45" | Sg. Batang Kali | Hulu Selangor |
| 101° 20' 05" | 3° 40' 50" | Sg. Bernam | Sabak Bernam |
| 101° 26' 48" | 3° 44' 30" | Sg. Bernam | Hulu Selangor |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|---|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 31' 42" | 3° 24' 24" | Sg. Darah | Hulu Selangor |
| 101° 23' 54" | 3° 40' 30" | Sg. Dusun | Hulu Selangor |
| 101° 41' 30" | 3° 36' 42" | Sg. Gerachi | Kuala Selangor |
| 101° 44' 00" | 3° 18' 30" | Sg. Gombak | Gombak |
| 102° 44' 00" | 3° 17' 06" | Sg. Gombak | Gombak |
| 101° 36' 10" | 3° 39' 05" | Sg. Inki | Hulu Selangor |
| 101° 40' 18" | 3° 16' 24" | Sg. Kepong | Gombak |
| 101° 37' 36" | 3° 14' 18" | Sg. Keroh | Sg. Keroh |
| 101° 30' 48" | 3° 34' 05" | Sg. Kubu | Kuala Selangor |
| 101° 42' 05" | 2° 47' 05" | Sg. Labu | Sepang |
| 101° 40' 48" | 3° 50' 48" | Sg. Langat | Kuala Langat |
| 101° 46' 36" | 3° 02' 36" | Sg. Langat | Hulu Langat |
| 101° 50' 18" | 3° 44' 42" | Sg. Lolo | Hulu Langat |
| 101° 50' 24" | 3° 44' 36" | Sg. Pangsoon | Hulu Langat |
| 101° 43' 48" | 3° 17' 48" | Sg. Pusu | Gombak |
| 101° 40' 00" | 3° 17' 00" | Sg. Rangkap | Gombak |
| 101° 45' 05" | 3° 18' 00" | Sg. Rumput | Gombak |
| 101° 26' 48" | 3° 24' 00" | Sg. Selangor | Kuala Selangor |
| 101° 26' 48" | 3° 22' 06" | Sg. Selangor | Kuala Selangor |
| 101° 47' 12" | 3° 05' 48" | Sg. Serai | Hulu Langat |
| 101° 25' 40" | 3° 38' 15" | Sg. Tenggi | Hulu Selangor |
| 101° 45' 36" | 3° 14' 16" | Empangan Klang Gates | Kuala Lumpur |
| 102° 45' 36" | 4° 14' 16" | Empangan Klang Gates | Gombak |
| 101° 47' 30" | 3° 04' 42" | Empangan Sg. Langat (discharge into Sg. Langat) | Hulu Langat |
| 101° 41' 10" | 3° 17' 05" | Empangan Sg. Batu | Gombak |
| 101° 28' 48" | 3° 10' 00" | Empangan Tasik Subang | Kelang |

(9) The State of Sarawak

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 111° 52' 47" | 1° 34' 52" | Sg. Batang Rajang | Sibu |
| 111° 52' 27" | 2° 15' 51" | Sg. Batang Rajang | Sibu |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 110° 16' 42" | 1° 27' 20" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 44" | 1° 27' 19" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 33" | 1° 26' 58" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 31" | 1° 26' 52" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 12' 30" | 1° 34' 52" | Empangan Matang | Matang, Kuching |
| 110° 11' 14" | 1° 36' 33" | Sg. Cina | Matang, Kuching |
| 110° 12' 53" | 1° 34' 56" | Sebutut Basin Intake | Matang, Kuching |
| 112° 02' 05" | 4° 18' 18" | Sg. Liku | Miri |
| 114° 02' 05" | 4° 18' 19" | Sg. Liku | Miri |
| 114° 06' 05" | 4° 18' 18" | Sg. Liku | Miri |
| 114° 01' 58" | 4° 18' 06" | Sg. Liku | Miri |
| 114° 07' 40" | 4° 11' 37" | Sg. Bakong | Buri |
| 114° 58' 10" | 4° 40' 01" | Sg. Berawan | Limbang |
| 115° 02' 27" | 4° 37' 07" | Sg. Pendaruan | Limbang |
| 112° 25' 45" | 2° 40' 30" | Sg. Krat | Bako |
| 110° 08' 47" | 1° 08' 47" | Sg. Sarawak Kanan | Kuching |
| 109° 51' 11" | 1° 40' 52" | Sg. Lundu | Kuching |
| 110° 28' 50" | 1° 38' 48" | Sg. Selabat | Kuching |
| 110° 24' 04" | 1° 17' 28" | Sg. Tapah | Siburan, Tapah and Beratok |
| 109° 47' 44" | 1° 47' 41" | Sg. Sebat Besar | Sematan |
| 110° 01' 56" | 1° 26' 52" | Sg. Siniawan | Kuching |
| 111° 31' 10" | 1° 08' 14" | Sg. Batang Undup | Sri Aman |
| 111° 25' 00" | 1° 06' 15" | Sg. Dor | Melugu |
| 111° 37' 10" | 1° 17' 08" | Sg. Dor | Skrang |
| 111° 49' 51" | 1° 00' 11" | Sg. Batang Ai | Lubuk Antu |
| 111° 38' 13" | 1° 07' 53" | Sg. Marup | Engkili |
| 111° 23' 05" | 1° 18' 22" | Sg. Seterap | Pantu |
| 111° 10' 16" | 1° 21' 05" | Sg. Stugok | Lingga |
| 112° 50' 05" | 1° 02' 26" | Sg. Lemanak | Lubuk Antu LDS |
| 111° 32' 16" | 1° 24' 31" | Sg. Stumbin | Stumbin/Bijat |
| 113° 06' 33" | 3° 12' 32" | Sg. Sibiu | Bintulu |
| 113° 06' 32" | 3° 12' 27" | Sg. Sibiu | Bintulu |
| 111° 02' 09" | 1° 39' 38" | Sg. Meludam | Meludam |
| 111° 07' 00" | 1° 10' 00" | Sg. Batang Layar | Betong |
| 111° 23' 57" | 1° 39' 12" | Sg. Obar | Debak |
| 111° 12' 19" | 1° 38' 01" | Sg. Dumit | Beladin |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 111° 17' 15" | 1° 38' 39" | Sg. Undai | Pusa |
| 111° 19' 34" | 1° 47' 15" | Sg. Sebelak | Betong |
| 111° 41' 11" | 2° 04' 54" | Sg. Bintangor | Bintangor |
| 111° 30' 05" | 2° 01' 35" | Sg. Bintangor | Sarikei |
| 111° 40' 45" | 1° 53' 35" | Sg. Julau | Pakan |
| 111° 54' 15" | 2° 01' 41" | Sg. Julau | Julau |
| 111° 15' 42" | 2° 00' 54" | Sg. Kerubong | Selalang |
| 115° 23' 11" | 4° 49' 34" | Sg. Gaya | Lawas |
| 114° 55' 48" | 4° 49' 34" | Sg. Menuang | Lubai Tengah |
| 115° 19' 17" | 4° 50' 32" | Sg. Batang Trusan | Trusan |
| 115° 16' 15" | 4° 47' 08" | Sg. Batang Trusan | Sundar |
| 110° 33' 45" | 1° 09' 45" | Sg. Sadong | Serian |
| 110° 37' 08" | 1° 08' 03" | Sg. Sinyaru | Triboh |
| 110° 47' 61" | 1° 22' 03" | Sg. Melanjok | Simunjan |
| 110° 30' 21" | 1° 05' 53" | Sg. Kayan | Terbakang |
| 110° 40' 00" | 1° 12' 23" | Sg. Batang Krang | Gedong |
| 110° 37' 01" | 1° 32' 31" | Sg. Nonok | Samarahan |
| 110° 56' 06" | 1° 31' 08" | Sg. Sebuyau | Sebuyau |
| 110° 21' 18" | 1° 01' 45" | Sg. Suhu | Tebedu |
| 110° 45' 58" | 1° 33' 36" | Sg. Sebangan | Sebangan |
| 110° 48' 26" | 1° 03' 04" | Sg. Krang | Balai Ringin |
| 113° 16' 08" | 3° 06' 43" | Sg. Sebangat | Sebauh |
| 112° 51' 32" | 2° 53' 13" | Sg. Sap Kiri | Tatau |
| 113° 29' 49" | 3° 15' 39" | Sg. Batang Kemena | Labang |
| 113° 42' 49" | 3° 09' 54" | Sg. Jelalang | Tubau |
| 112° 47' 05" | 3° 04' 08" | Ground Water | Bintulu |
| 112° 47' 15" | 3° 04' 08" | Sg. Anap | Bintulu |
| 113° 56' 42" | 3° 09' 52" | Sg. Koyan | Bakau |
| 114° 19' 06" | 4° 10' 40" | Sg. Batang Baram | Miri |
| 114° 24' 43" | 3° 45' 56" | Sg. Batang Baram | Long Lama |
| 113° 55' 44" | 4° 06' 26" | Sg. Kejapil | Bekenu |
| 114° 06' 15" | 3° 58' 02" | Sg. Bakong | Beluru |
| 113° 47' 02" | 3° 44' 00" | Sg. Niah | Niah, Subis |
| 112° 11' 26" | 2° 46' 08" | Sg. Kanowit | Kanowit |
| 112° 35' 09" | 3° 00' 47" | Sg. Mukah | Ulu Mukah |
| 112° 23' 28" | 2° 22' 28" | Sg. Ulu Mukah | Ng. Sekau |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 112° 04' 19" | 2° 52' 26" | Sg. Kanowit | Machan |
| 112° 04' 46" | 2° 17' 15" | Sg. Bawang Assan | Sibu |
| 111° 58' 30" | 2° 41' 15" | Sg. Ngemah | Ng. Jagau |
| 111° 18' 21" | 1° 53' 08" | Sg. Kabah | Ng. Tada |
| 112° 09' 08" | 2° 55' 18" | Sg. Ngemah | Ng. Ngungun |
| 112° 56' 15" | 2° 00' 51" | Sg. Batang Rejang | Kapit |
| 113° 46' 02" | 2° 42' 33" | Sg. Belaga | Belaga |
| 113° 40' 57" | 1° 49' 08" | Sg. Batang Baleh | Ng. Entawau |
| 112° 32' 24" | 2° 56' 17" | Sg. Suyung | Balingan |
| 112° 09' 05" | 2° 05' 57" | Sg. Batang Mukah | Mukah |
| 111° 43' 10" | 2° 50' 05" | Sg. Lasai Dagan | Igan |
| 111° 50' 28" | 2° 44' 11" | Sg. Nangar | Kut |
| 112° 21' 36" | 2° 05' 16" | Sg. Setuan Besar | Kuala Balingian |
| 111° 30' 42" | 2° 38' 14" | Sg. Mabun | Kg. Tian |
| 111° 23' 32" | 2° 2' 5 05" | Sg. Muara Serdang | Semup |
| 111° 15' 12" | 2° 24' 48" | Ground Water | Paloh |
| 111° 35' 08" | 2° 0' 4 49" | Sg. Batang Jemoreng | Matu |
| 111° 27' 54" | 2° 37' 57" | Sg. Daro | Daro |
| 111° 27' 50" | 2° 30' 00" | Ground Water | Saai |

(10) Federal Territory of Labuan

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 115° 11' 00" | 5° 21' 00" | Sg. Kina Benuwa | Empangan Air Bukit Kuda |
| 115° 10' 00" | 5° 19' 00" | Sg. Kina Benuwa | Empangan Air Sungai Pagar |
| 115° 13' 00" | 5° 19' 00" | Sg. Kina Benuwa | Empangan Air Kerupang |
| 115° 12' 59" | 5° 18' 13" | Sg. Kina Benuwa | |
| 115° 14' 59" | 5° 17' 36" | Telaga Tiub Borehole No. A19 | |
| 115° 15' 01" | 5° 17' 27" | Telaga Tiub Borehole No. M | |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 115° 15' 02" | 5° 17' 19" | Telaga Tiub Borehole No. B | |
| 115° 15' 17" | 5° 17' 21" | Telaga Tiub Borehole No. A 21 | |
| 115° 15' 26" | 5° 17' 24" | Telaga Tiub Borehole No. M 11 | |
| 115° 15' 34" | 5° 17' 38" | Telaga Tiub Borehole No. B 23 | |
| 115° 15' 20" | 5° 17' 42" | Telaga Tiub Borehole No. A 12 | |
| 115° 15' 16" | 5° 10' 05" | Telaga Tiub Borehole No. W 5 | |
| 115° 15' 11" | 5° 17' 53" | Telaga Tiub Borehole No. A 20 | |
| 115° 15' 01" | 5° 10' 16" | Telaga Tiub Borehole No. B 24 | |
| 115° 15' 01" | 5° 10' 01" | Telaga Tiub Borehole No. 10 | |
| 115° 14' 59" | 5° 10' 30" | Telaga Tiub Borehole No. W 4 | |
| 115° 14' 48" | 5° 18' 45" | Telaga Tiub Borehole No. W 3 | |
| 115° 14' 26" | 5° 19' 51" | Telaga Tiub Borehole No. B 27 | |
| 115° 14' 26" | 5° 19' 52" | Telaga Tiub Borehole No. A 14 | |
| 115° 14' 13" | 5° 19' 36" | Telaga Tiub Borehole No. A 17 | |
| 115° 14' 29" | 5° 19' 18" | Telaga Tiub Borehole No. A 13 | |
| 115° 14' 38" | 5° 19' 28" | Telaga Tiub Borehole No. B 26 | |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 115° 14' 33" | 5° 19' 05" | Telaga Tiub Borehole No. W 1 | |
| 115° 14' 39" | 5° 19' 12" | Telaga Tiub Borehole No. B 25 | |
| 115° 14' 40" | 5° 18' 56" | Telaga Tiub Borehole No. W 2 | |
| 115° 14' 44" | 5° 18' 28" | Telaga Tiub Borehole No. A 8 | |
| 115° 14' 28" | 5° 18' 28" | Telaga Tiub Borehole No. A 15 | |
| 115° 15' 09" | 5° 17' 32" | Telaga Tiub Borehole No. B 22 | |
| 115° 14' 46" | 5° 18' 00" | Telaga Tiub Borehole No. A 18 | |

(11) The State of Sabah

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 116° 09' 24.2" | 5° 55' 21.4" | Sg. Moyog | Penampang |
| 116° 11' 16.2" | 5° 54' 47.6" | Empangan Babagon | Penampang |
| 116° 06' 33.6" | 5° 54' 52.4" | Sg. Moyog | Penampang |
| 116° 00' 00.1" | 5° 41' 06.6" | Sg. Papar | Papar |
| 115° 56' 51.9" | 5° 42' 52.9" | Sg. Papar | Papar |
| 115° 56' 52.2" | 5° 42' 50.2" | Sg. Papar | Papar |
| 116° 02' 12.5" | 5° 42' 31.4" | Sg. Papar | Papar |
| 116° 14' 34.3" | 6° 08' 49.9" | Sg. Tuaran | Tamparuli |
| 116° 16' 09.9" | 6° 07' 54.9" | Sg. Tuaran | Tamparuli |
| 116° 14' 14.3" | 6° 09' 12.2" | Sg. Tuaran | Tamparuli |
| 116° 13' 56.6" | 6° 08' 24.9" | Sg. Tuaran | Tamparuli |
| 116° 17' 55.7" | 6° 11' 20.4" | Sg. Damit | Tuaran |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 116° 13' 43.2" | 6° 10' 26.1" | Sg. Tuaran | Tuaran |
| 118° 06' 49.7" | 5° 51' 14.2" | Boreholes | Sandakan |
| 118° 06' 47.9" | 5° 51' 22.0" | Boreholes | Sandakan |
| 118° 06' 29.0" | 5° 51' 21.4" | Boreholes | Sandakan |
| 118° 06' 12.9" | 5° 51' 27.6" | Boreholes | Sandakan |
| 118° 05' 51.5" | 5° 51' 21.6" | Boreholes | Sandakan |
| 118° 04' 41.3" | 5° 51' 17.0" | Boreholes | Sandakan |
| 118° 03' 45.1" | 5° 49' 58.8" | Boreholes | Sandakan |
| 118° 03' 49.1" | 5° 50' 04.1" | Boreholes | Sandakan |
| 118° 04' 07.6" | 5° 50' 36.7" | Boreholes | Sandakan |
| 118° 04' 14.1" | 5° 50' 45.5" | Pond | Sandakan |
| 118° 04' 19.8" | 5° 50' 57.5" | Boreholes | Sandakan |
| 118° 04' 31.8" | 5° 51' 14.1" | Boreholes | Sandakan |
| 118° 03' 03.6" | 5° 50' 36.5" | Boreholes | Sandakan |
| 118° 03' 01.2" | 5° 50' 24.9" | Pond | Sandakan |
| 118° 02' 41.5" | 5° 50' 13.6" | Boreholes | Sandakan |
| 118° 02' 46.4" | 5° 50' 00.0" | Boreholes | Sandakan |
| 118° 02' 50.8" | 5° 49' 57.9" | Pond | Sandakan |
| 118° 02' 26.5" | 5° 49' 34.2" | Boreholes | Sandakan |
| 118° 02' 24.3" | 5° 49' 20.8" | Boreholes | Sandakan |
| 118° 02' 11.6" | 5° 49' 59.1" | Boreholes | Sandakan |
| 118° 01' 44.8" | 5° 50' 18.7" | Boreholes | Sandakan |
| 118° 01' 56.1" | 5° 49' 39.3" | Boreholes | Sandakan |
| 118° 01' 35.2" | 5° 49' 30.1" | Boreholes | Sandakan |
| 118° 01' 22.4" | 5° 49' 25.5" | Boreholes | Sandakan |
| 118° 01' 19.2" | 5° 48' 53.9" | Boreholes | Sandakan |
| 118° 04' 42.1" | 5° 51' 16.0" | Boreholes | Sandakan |
| 117° 50' 11.3" | 5° 29' 07.2" | Sg. Kinabatangan | Kinabatangan |
| 117° 32' 00" | 5° 53' 00" | Sg. Muanad | Beluran |
| 117° 52' 48.3" | 4° 16' 47.0" | Sg. Tawau | Tawau |
| 117° 53' 52.2" | 4° 21' 00.4" | Sg. Tawau | Tawau |
| 117° 46' 31.7" | 4° 27' 10.0" | Sg. Merotai | Tawau |
| 118° 10' 09.6" | 5° 00' 11.4" | Empangan Sepagaya | Lahad Datu |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 118° 13' 28.0" | 5° 06' 01.2" | Sg. Segama | Lahad Datu |
| 118° 49' 50.8" | 5° 04' 24.5" | Sg. Tungku | Lahad Datu |
| 118° 14' 34.7" | 4° 28' 52.3" | Sg. Kalumpang | Semporna |
| 118° 11' 04.4" | 4° 35' 10.9" | Sg. Kalumpang | Kunak |
| 116° 08' 48.8" | 5° 22' 39.9" | Sg. Liawan | Keningau |
| 116° 10' 01.6" | 5° 26' 18.0" | Sg. Bayayo | Keningau |
| 116° 20' 04.4" | 5° 41' 49.6" | Sg. Tondulu | Tambunan |
| 115° 56' 06.0" | 5° 06' 58.7" | Sg. Padas | Tenom |
| 115° 55' 01.8" | 4° 53' 38.8" | Sg. Padas | Tenom |
| 116° 25' 59.4" | 5° 02' 01.5" | Sg. Panawan | Pensiangan |
| 116° 18' 12.6" | 5° 08' 38.2" | Sg. Sook | Sook |
| 115° 46' 10.9" | 5° 20' 36.2" | Sg. Padas | Beaufort |
| 115° 34' 37.5" | 5° 06' 31.0" | Sg. Lukutan | Sipitang |
| 115° 48' 04.0" | 5° 28' 19.7" | Sg. Membakut | Membakut |
| 116° 48' 04.4" | 6° 56' 20.5" | Empangan Pinangsoo | Kudat |
| 116° 44' 56.6" | 6° 28' 01.1" | Sg. Bandau | Kota Marudu |
| 116° 44' 54.1" | 6° 27' 57.1" | Sg. Pengapunya | Kota Marudu |
| 117° 01' 50.1" | 6° 40' 45.1" | Sg. Bengkoka | Pitas |
| 116° 26' 05.4" | 6° 21' 31.8" | Sg. Tempasuk | Kota Belud |
| 116° 37' 43.4" | 5° 57' 16.1" | Sg. Liwagu | Ranau |
| 117° 06' 00" | 5° 37' 00" | Sg. Maliau | Telupid |
| 116° 59' 00" | 5° 16' 00" | Sg. Milian | Tongod |
| 116° 50' 00" | 5° 12' 00" | Sg. Melikop | Tongod |

(12) The State of Terengganu

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 103° 21' 20" | 4° 40' 40" | Loji Air Bukit Bauk | Dungun |
| 103° 20' 18" | 4° 47' 40" | Loji Air Serdang | Dungun |
| 103° 10' 20" | 4° 49' 10" | Loji Air Tepus | Dungun |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 103° 19' 10" | 4° 13' 00" | Loji Air Bukit Sah | Kemaman |
| 103° 11' 50" | 4° 06' 35" | Loji Air Cherul | Kemaman |
| 103° 03' 50" | 5° 15' 55" | Loji Air Kepong | Kuala Terengganu |
| 103° 05' 40" | 5° 17' 37" | Loji Air Bukit Losong | Kuala Terengganu |
| 103° 00' 35" | 5° 04' 30" | Loji Air Kuala Berang | Hulu Terengganu |
| 103° 02' 45" | 4° 55' 45" | Loji Air Gunung | Hulu Terengganu |
| 102° 58' 05" | 5° 09' 10" | Loji Air Telemong | Hulu Terengganu |
| 103° 12' 15" | 4° 50' 38" | Loji Air Jerangau | Hulu Terengganu |
| 102° 30' 00" | 5° 38' 05" | Loji Air Bukit Bunga (Old and New) | Besut |
| 102° 45' 00" | 5° 05' 00" | Loji Air Pulau Perhentian | Besut |
| 102° 45' 00" | 5° 31' 50" | Sg. Setiu | Setiu |
| 102° 49' 42" | 5° 26' 18" | Sg. Chalok | Setiu |
| 102° 51' 42" | 5° 20' 12" | Sg. Nerus | Setiu |

(13) The State of Negeri Sembilan

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 20' 32" | 2° 34' 06" | Empangan Gemencheh | Gemencheh |
| 102° 34' 18" | 2° 38' 35" | Sg. Muar | Gemas Baru |
| 102° 32' 21" | 2° 38' 23" | Sg. Muar | Pasir Besar |
| 102° 21' 10" | 2° 40' 14" | Sg. Dangi | Dangi Baru |
| 102° 23' 49" | 2° 36' 16" | Telaga Tiub Bukit Rokan | Bukit Rokan |
| 102° 03' 17" | 2° 39' 40" | Sg. Beringin | Pedas Baru |
| 102° 34' 18" | 2° 38' 59" | Empangan Batu Hampar | Pedas Lama |
| 102° 22' 01" | 2° 43' 00" | Sg. Jelai | Felda Kepis |
| 102° 14' 79" | 2° 44' 02" | Sg. Muar | Bukit Pilah |
| 102° 14' 22" | 2° 44' 25" | Sg. Muar | Kuala Pilah |
| 102° 04' 3" | 2° 42' 44" | Sg. Batang Terachi | Ulu Bendul |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 08' 51.7" | 2° 47' 10" | Empangan Talang/Sg. Muar | Air Talang |
| 102° 24.090' | 2° 44' 24" | Sg. Muar | Kuala Jelai |
| 102° 22' 0.05" | 2° 48' 59" | Sg. Muar | Bahau Baru |
| 102° 22' 24.8" | 2° 47' 59" | Sg. Muar | Jempol |
| 102° 0.1' 26.4" | 2° 48' 14" | Hutan Simpan Berembun | Pantai |
| 101° 55' 04.5" | 2° 56' 06" | Sg. Broga | Broga |
| 101° 59' 43.4" | 2° 45' 31" | Sg. Batang Benar | Terip |
| 101° 00' 14.3" | 2° 45' 33" | Empangan Sg. Terip | Loji Rawatan Air Sg. Terip |
| 102° 14.784' | 2° 44' 25" | Sg. Mahang | Mahang |
| 101° 50.000' | 2° 48' 14" | Sg. Ngoi-Ngoi | Ngoi-Ngoi |
| 102° 56.927 | 2° 36' 12" | Sg. Linggi | Linggi |
| 102° 03' 59" | 02° 56' 13.1" | Sg. Kemin | Kuala Klawang |
| 102° 13' 04.7" | 3° 04' 31" | Sg. Triang | Lakai |
| 102° 06' 40.0" | 3° 04' 02" | Sg. Kenaboi | Felda Titi |
| 102° 13' 36" | 02° 57' 54" | Sg. Pertang | Durian Tawar |

(14) The State of Melaka

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|---|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 15' 50" | 2° 17' 55" | Sg. Melaka | Jasin, Melaka Tengah and Alor Gajah |
| 102° 18' 40" | 2° 20' 00" | Empangan Durian Tunggal | Melaka Tengah, Alor Gajah and Jasin |
| 102° 15' 50" | 2° 17' 55" | Sg. Melaka | Melaka Tengah, Alor Gajah and Jasin |
| 102° 15' 25" | 2° 24' 35" | Sg. Batang Melaka | Alor Gajah, Masjid Tanah and Lubuk Cina |
| 102° 29' 12" | 2° 16' 00" | Sg. Kesang | Jasin |
| 102° 28' 15" | 2° 11' 50" | Sg. Kesang | Jasin and Merlimau |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|--|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 22' 15" | 2° 26' 35" | Empangan Jus | Alor Gajah, Masjid Tanah and Lubuk Cina |
| 102° 35' 16" | 2° 24' 23" | Empangan Asahan | Asahan, Simpang. Bekoh, Nyalas and Bukit Senggeh |
| 102° 45' 02" | 2° 12' 10" | Sg. Muar | Melaka Tengah, Alor Gajah and Jasin |

FOURTH SCHEDULE

(Regulation 9)

METHODS OF ANALYSIS OF SEWAGE

1. The 21st edition of "Standard Methods for the Examination of Water and Wastewater" published jointly by the American Public Health Association, the American Water Works Association and the Water Environment Federation of the United States of America; or
2. "Code of Federal Regulations, Chapter 40, Subchapter D, part 136" published by the Office of the Federal Register, National Archives and Records Administration, United States of America.

FIFTH SCHEDULE

(Regulation 10)

MONTHLY SEWAGE DISCHARGE MONITORING REPORT

SECTION I

IDENTIFICATION

1. (i) Name and address of premises:

.....

Telephone number: Fax number:

- (ii) File reference number of Department of Environment (if applicable):

.....

2. (i) Name and address of accredited analytical laboratory:

.....

Telephone number: Fax number:

(ii) Name of analyst:

.....

3. (i) Reporting year :.....

(ii) Reporting month:

SECTION II

SEWAGE INFORMATION*

4. (i) Flowrate

Maximum:..... m³/d, Minimum: m³/d

(ii) Population equivalent (P.E.):

(iii) Quality of sewage discharged

Quality of sewage discharged (unit in mg/L) for new sewage treatment systems

| Parameter | First Week | Second Week | Third Week | Fourth Week |
|---|-------------|-------------|-------------|-------------|
| | Date: | Date: | Date: | Date: |
| BOD ₅ at 20°C | | | | |
| COD | | | | |
| Suspended Solids | | | | |
| Oil and Grease | | | | |
| Ammoniacal Nitrogen (enclosed water body) | | | | |
| Ammoniacal Nitrogen (river) | | | | |
| Nitrate – Nitrogen (river) | | | | |
| Nitrate – Nitrogen (enclosed water body) | | | | |
| Phosphorous (enclosed water body) | | | | |

Quality of sewage discharged (unit in mg/L) for existing sewage treatment systems

| Parameter | First Week Date: | Second Week Date: | Third Week Date: | Fourth Week Date: |
|--------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| BOD ₅ at 20°C | | | | |
| COD | | | | |
| Suspended Solids | | | | |
| Oil and Grease | | | | |

NOTE:*

- (a) The flowrate and concentration of sewage at the point of discharge as determined in accordance with the sampling procedure and method of analysis as specified in regulation 9.
- (b) Sewage treatment systems with less than 5000 population equivalent (P.E.) shall conduct sampling once a month only.

SECTION III

DECLARATION

I,hereby declare that all information given in this form is to the best of my knowledge and belief true and correct.

Signature of responsible person:

.....

Name:

Designation:

Date:

(Affix official seal or stamp of company)

SIXTH SCHEDULE

(Regulation 11)

SPECIFICATIONS OF POINT OF DISCHARGE OF SEWAGE

1. The discharge point is located within the boundary of the sewage treatment system, immediately after its the final unit operation or unit process.
2. The location of the discharge point is easily accessible and does not pose any safety hazards to personnel performing site inspection or sewage sampling.
3. The leachate is discharged through a pipe, conduit or channel to facilitate sewage sampling.

4. The discharge point is physically identified by installing a metal identification sign which reads "Final Discharge Point".
5. The discharge point and its surrounding is properly maintained to be free from any obstruction that may pose difficulty or hazards during site inspection or sewage sampling.

SEVENTH SCHEDULE

(Regulation 24)

METHOD OF COMPUTING SEWAGE-RELATED LICENCE FEE

1. For existing sewage treatment systems, the sewage-related licence fee is computed as follows:

| Parameter | Fee per kg of contaminant discharged into inland waters as specified in subparagraphs 5(1)(a), (c) or (e) | Fee per kg of contaminant discharged onto any soil or into other inland waters |
|------------------------------|---|--|
| (i) BOD ₅ at 20°C | RM0.50 | RM0.05 |
| (ii) Oil and Grease | RM2500.00 | RM250.00 |

2. For new sewage treatment system, the sewage-related licence fee is computed as follows:

| Parameter | Fee per kg of contaminant discharged into inland waters specified in subparagraphs 5(1)(a), (c) or (e) | Fee per kg of contaminant discharged onto any soil or into other inland waters |
|------------------------------|--|--|
| (i) BOD ₅ at 20°C | RM0.50 | RM0.05 |
| (ii) Oil and Grease | RM2500.00 | RM250.00 |
| (iii) Ammoniacal Nitrogen | RM500.00 | RM50.00 |

Made 12 October 2009
[AS(S) 91/110/919/026; PN(PU²)280/XII]

DATUK DOUGLAS UGGAH EMBAS
Minister of Natural Resources and the Environment

P.U. (A) 433.

AKTA KUALITI ALAM SEKELILING 1974

PERATURAN-PERATURAN KUALITI ALAM SEKELILING
(KAWALAN PENCEMARAN DARIPADA STESEN PEMINDAHAN SISA
PEPEJAL DAN KAMBUS TANAH) 2009

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3. Pemakaian
4. Pemberitahuan mengenai punca baru pelepasan atau pembuangan larut resapan
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JADUAL PERTAMA

JADUAL KEDUA

JADUAL KETIGA

JADUAL KEEMPAT

JADUAL KELIMA

AKTA KUALITI ALAM SEKELILING 1974

PERATURAN-PERATURAN KUALITI ALAM SEKELILING (KAWALAN PENCEMARAN DARIPADA STESEN PEMINDAHAN SISA PEPEJAL DAN KAMBUS TANAH) 2009

PADA menjalankan kuasa yang diberikan oleh seksyen 21, 24 dan 51 Akta Kualiti Alam Sekeliling 1974 [*Akta 127*] Menteri, setelah berunding dengan Majlis Kualiti Alam Sekeliling, membuat peraturan-peraturan yang berikut:

Nama

1. Peraturan-peraturan ini bolehlah dinamakan **Peraturan-Peraturan Kualiti Alam Sekeliling (Kawalan Pencemaran daripada Stesen Pemindahan Sisa Pepejal dan Kambus Tanah) 2009**.

Tafsiran

2. Dalam Peraturan-Peraturan ini—

“larut resapan” ertinya cecair yang telah menyerap melalui sisa pepejal dan telah dikeluarkan atau dilarut, atau bahan terampai daripada sisa pepejal itu, atau cecair yang dibuang atau dilepaskan daripada suatu stesen pemindahan sisa pepejal atau kambus tanah;

“jurutera profesional” mempunyai erti yang sama yang diberikan kepadanya dalam Akta Pendaftaran Jurutera 1967 [*Akta 138*];

“kambus tanah” ertinya tempat pelupusan sisa untuk longgokan sisa pepejal di atas atau di dalam tanah;

“lesen” ertinya lesen yang disebut dalam peraturan 14 menurut subseksyen 25(1) Akta;

“pegawai diberi kuasa” ertinya mana-mana pegawai yang dilantik di bawah seksyen 3 Akta atau mana-mana pegawai yang Ketua Pengarah telah mewakilkan kuasanya di bawah seksyen 49 Akta;

“sisa pepejal” mempunyai erti yang sama yang diberikan kepadanya dalam Akta Pengurusan Sisa Pepejal dan Pembersihan Awam [*Akta 672*] dan “stesen pemindahan sisa pepejal” ertinya kemudahan yang sisa pepejal diterima bagi maksud pemindahan kemudiannya ke kemudahan lain untuk pemprosesan, rawatan, pemindahan atau pelupusan selanjutnya;

“sistem pengolohan larut resapan” ertinya apa-apa kemudahan yang direka bentuk dan dibina bertujuan untuk mengurangkan potensi larut resapan yang menyebabkan pencemaran;

“sistem pengumpulan dan pembuangan larut resapan (LCRS)” termasuk sistem pelapik, lapisan penyaliran, paip dan parit larut resapan, lubang pembersihan paip larut resapan, pam pengumpulan larut resapan dan stesen pengepaman dan sistem tangki penstoran larut resapan.

Pemakaian

3. Peraturan-Peraturan ini hendaklah terpakai kepada stesen pemindahan sisa pepejal dan kambus tanah yang membuang atau melepaskan larut resapan.

Pemberitahuan mengenai punca baru pembuangan atau pelepasan larut resapan

4. (1) Walau apa pun peruntukan lain dalam Peraturan-Peraturan ini, tiada seorang pun boleh, tanpa pemberitahuan bertulis terlebih dahulu kepada Ketua Pengarah, menjalankan apa-apa kerja atas mana-mana stesen pemindahan sisa pepejal atau kambus tanah, atau membina atas mana-mana tanah apa-apa kemudahan atau bangunan yang boleh menyebabkan punca baru pembuangan atau pelepasan larut resapan.

(2) Dalam peraturan ini, “punca baru pembuangan atau pelepasan larut resapan” ertinya mana-mana stesen pemindahan sisa pepejal atau kambus tanah, yang belum beroperasi atau yang pemberitahuan bertulis belum diberikan oleh Ketua Pengarah.

(3) Pemberitahuan bertulis kepada Ketua Pengarah yang disebut dalam subperaturan (1) hendaklah disertakan dengan maklumat sebagaimana yang dinyatakan dalam Jadual Pertama.

Pengendalian stesen pemindahan sisa pepejal dan kambus tanah

5. Seseorang pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah hendaklah mengendalikan stesen pemindahan sisa pepejal atau kambus tanah dengan sedemikian cara yang perkara-perkara berikut dikawal sepenuhnya:

- (a) bunyi, habuk dan bau;
- (b) pencemaran udara;
- (c) pencemaran tanah, permukaan air atau air bawah tanah; dan
- (d) kemasukan dan pelupusan sisa terjadual.

Sistem pengumpulan dan pelupusan gas kambus tanah

6. Seseorang pemunya atau penghuni kambus tanah hendaklah mengendalikan sistem pengumpulan dan pelupusan gas kambus tanah untuk meminimumkan impak yang disebabkan oleh penjana gas kambus tanah.

Kawalan pencemaran air bawah tanah

7. Seseorang pemunya atau penghuni kambus tanah hendaklah—
- (a) memastikan bahawa reka bentuk dan pengendalian mana-mana kambus tanah mengandungi langkah-langkah untuk mencegah dan mengawal pencemaran terhadap air bawah tanah; dan

- (b) mengadakan dan mengendalikan program pemantauan air bawah tanah untuk memantau kebocoran atau pergerakan larut resapan daripada kambus tanah itu.

Pemantauan pembuangan larut resapan

8. Seseorang pemunya atau penghuni kambus tanah yang membuang larut resapan ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia hendaklah, dengan perbelanjaan sendiri—

- (a) memantau secara berterusan kepekatan nitrogen ammonia dalam larut resapan yang dibuang daripada kambus tanah, dengan menggunakan sistem instrumentasi dalam talian yang dihubungkan ke Jabatan Alam Sekitar;
- (b) memantau kepekatan parameter lain sebagaimana yang disenaraikan dalam ruang pertama Jadual Kedua dalam larut resapan yang dibuang daripada kambus tanah; dan
- (c) memasang meter kadar-aliran, kelengkapan pemantauan, kelengkapan pensampelan dan kelengkapan perekodan bagi maksud pemantauan pembuangan larut resapan.

Penyediaan sistem pengolahan larut resapan

9. Tiada seorang pun boleh mengendalikan stesen pemindahan sisa pepejal atau kambus tanah tanpa suatu sistem pengolahan larut resapan.

Pengendalian yang betul sistem pengolahan larut resapan

10. (1) Seseorang pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah hendaklah mengendalikan dan menyenggara sistem pengolahan larut resapan mengikut amalan kejuruteraan yang baik bagi pengolahan larut resapan dan memastikan bahawa semua komponen sistem pengolahan larut resapan dalam keadaan baik.

(2) Dalam peraturan ini, “amalan kejuruteraan yang baik” ertinya cara yang dengannya suatu sistem pengolahan larut resapan dikendalikan yang ciri-ciri pengendalian disenggarakan dalam nilai julat normal yang biasa digunakan bagi pengolahan larut lesapan.

Pemantauan prestasi sistem pengolahan larut resapan

11. (1) Seseorang pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah hendaklah—

- (a) menjalankan pemantauan prestasi komponen sistem pengolahan larut resapan; dan
- (b) melengkapkan dirinya dengan kemudahan, kelengkapan atau peralatan yang berkaitan bagi maksud menjalankan pemantauan sistem pengolahan larut resapan yang disebut dalam perenggan (a).

(2) Dalam peraturan ini, “pemantauan prestasi” ertinya pemantauan rutin ciri-ciri tertentu bagi menyediakan suatu petunjuk bahawa proses pengolahan adalah berfungsi dan berupaya mengolah larut resapan.

Orang yang berwibawa

12. (1) Pengendalian sistem pengolahan larut resapan hendaklah diawasi oleh orang yang berwibawa.

(2) Orang yang berwibawa ialah mana-mana orang yang telah diperakui oleh Ketua Pengarah bahawa dia sewajarnya layak untuk mengawasi pengendalian sistem pengolahan larut resapan bagi stesen pemindahan sisa pepejal atau kambus tanah.

(3) Pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah itu hendaklah memastikan orang yang berwibawa bertugas pada bila-bila masa sistem pengolahan larut resapan sedang beroperasi.

Syarat-syarat yang boleh diterima bagi pembuangan larut resapan

13. Tiada seorang pun boleh membuang larut resapan yang mengandungi bahan yang mempunyai kepekatan melebihi daripada yang dinyatakan sebagai syarat-syarat yang boleh diterima sebagaimana yang ditunjukkan dalam ruang ketiga Jadual Kedua, ke atas mana-mana tanah, atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia.

Lesen untuk melanggar syarat-syarat yang boleh diterima bagi pembuangan larut resapan

14. (1) Mana-mana orang boleh memohon untuk lesen di bawah subseksyen 25(1) Akta untuk melanggar syarat-syarat yang boleh diterima bagi pembuangan larut resapan sebagaimana yang dinyatakan dalam peraturan 6.

(2) Permohonan bagi lesen di bawah subperaturan (1) hendaklah dibuat mengikut tatacara sebagaimana yang dinyatakan dalam Peraturan-Peraturan Kualiti Alam Sekeliling (Pelesenan) 1977 [P.U. (A) 198/1977] dan hendaklah disertakan dengan—

- (a) suatu laporan mengenai kajian sifat larut resapan; dan
- (b) fi lesen dan fi lesen berkaitan larut resapan sebagaimana yang dinyatakan dalam peraturan 27.

Kaedah penganalisan dan pensampelan larut resapan

15. (1) Seseorang pegawai diberi kuasa boleh menjalankan analisis larut resapan secara *in-situ* atau *ex-situ* menggunakan apa-apa instrumen yang diluluskan oleh Ketua Pengarah.

(2) Apa-apa penganalisan larut resapan yang dibuang atau dilepaskan ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia hendaklah dijalankan mengikut apa-apa kaedah yang terkandung dalam penyiaran sebagaimana yang dinyatakan dalam Jadual Ketiga.

(3) Penganalisan larut resapan yang disebut dalam peraturan ini hendaklah berasaskan sampel cekau.

(4) Dalam peraturan ini—

- (a) “analisis *ex-situ*” ertinya analisis larut resapan yang dijalankan ke atas sampel yang telah dikeluarkan dari lokasinya dan dijalankan di tapak yang berlainan dan bukan di tapak dari mana sampel itu diambil;
- (b) “analisis *in-situ*” ertinya analisis larut resapan yang dijalankan ke atas sampel tanpa mengeluarkannya daripada lokasinya atau dijalankan ke atas sampel di tapak asal dari mana sampel itu diambil; dan
- (c) “sampel cekau” ertinya sampel individu diskret yang diambil dalam tempoh masa yang kurang daripada lima belas minit.

Petunjuk pembuangan larut resapan

16. (1) Petunjuk pembuangan larut resapan hendaklah mematuhi spesifikasi sebagaimana yang dinyatakan dalam Jadual Keempat dan hendaklah ditunjukkan dengan jelas oleh pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah di atas pelan susun atur dan lukisan kejuruteraan yang diperakui oleh jurutera profesional.

(2) Seseorang pemunya atau penghuni stesen pemindahan pepejal atau kambus tanah hendaklah mengemukakan kepada Ketua Pengarah pelan susun atur dan lukisan kejuruteraan yang disebut dalam subperaturan (1).

(3) Jika pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah mencadangkan untuk membuat apa-apa pengubahan atau perubahan kepada lokasi atau kedudukan petunjuk pembuangan larut resapan atau reka bentuk saluran keluar di petunjuk pembuangan larut resapan, dia hendaklah memaklumkan Ketua Pengarah dalam masa tiga puluh hari sebelum membuat pengubahan atau perubahan itu.

Larangan terhadap pembuangan atau pelepasan larut resapan melalui pintasan

17. (1) Tiada seorang pun boleh membuang atau melepaskan atau menyebabkan atau membenarkan untuk dibuang atau dilepaskan larut resapan ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia melalui pintasan.

(2) Dalam peraturan ini, “pintasan” ertinya apa-apa lencongan pembuangan larut resapan secara sengaja daripada mana-mana bahagian sistem pengolahan larut resapan.

Pencairan larut resapan

18. (1) Tiada seorang pun boleh mencairkan, atau menyebabkan atau membenarkan untuk dicairkan, mana-mana larut resapan, sama ada mentah atau terolah pada bila-bila masa atau ketika selepas ia dihasilkan di mana-mana stesen pemindahan sisa pepejal atau kambus tanah.

(2) Larut resapan menjadi cair apabila ia menjalani proses untuk menjadikannya kurang pekat dengan memasukkan air atau cecair daripada punca luar selain cecair atau bahan yang digunakan untuk mengolah larut resapan.

Tumpahan, pembuangan atau kebocoran yang tidak sengaja larut resapan

19. (1) Dalam keadaan terjadi apa-apa tumpahan, pembuangan atau kebocoran yang tidak sengaja mana-mana larut resapan sama ada secara terus atau tidak terus dapat masuk atau mungkin dapat masuk ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia, pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah hendaklah dengan segera dan tidak lebih daripada enam jam daripada waktu kejadian itu memaklumkan Ketua Pengarah mengenai kejadian itu.

(2) Seseorang pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah itu hendaklah, setakat yang munasabah, membendung, membersihkan atau mengurangkan tumpahan, pembuangan atau kebocoran yang tidak sengaja atau mendapatkan semula larut resapan mengikut cara yang memuaskan hati Ketua Pengarah.

(3) Ketua Pengarah boleh dalam kes tertentu, jika dia menganggap perlu untuk berbuat demikian, menyatakan cara tumpahan, pembuangan atau kebocoran yang tidak sengaja dibendung, dibersihkan atau dikurangkan dan pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah itu hendaklah mematuhi spesifikasi itu.

(4) Ketua Pengarah hendaklah menentukan apa-apa kerosakan yang disebabkan oleh apa-apa tumpahan, pembuangan atau kebocoran yang tidak sengaja dan boleh mendapatkan semula semua kos dan perbelanjaan daripada pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah itu.

(5) Jika Ketua Pengarah mengaku janji untuk membersihkan atau mengurangkan apa-apa tumpahan, pembuangan atau kebocoran yang tidak sengaja, dia hendaklah menentukan kos dan perbelanjaan penuh yang ditanggung dan boleh mendapatkan semula kos dan perbelanjaan itu daripada pemunya atau penghuni stesen pemindahan sisa pepejal atau kambus tanah itu mengikut peruntukan di bawah seksyen 47 Akta.

Membuat perubahan yang mengubah kualiti larut resapan

20. Seseorang pemegang lesen tidak boleh membuat, atau menyebabkan atau membenarkan untuk dibuat, apa-apa perubahan kepada stesen pemindahan sisa pepejal atau kambus tanah atau dalam cara menyenggara atau mengendalikan stesen pemindahan sisa pepejal atau kambus tanah itu, yang menyebabkan, atau diniatkan atau berkemungkinan menyebabkan, peningkatan material dalam kuantiti atau kualiti larut resapan atau kedua-duanya yang dibuang daripada stesen pemindahan sisa pepejal atau kambus tanah itu, melainkan jika kebenaran bertulis diperoleh daripada Ketua Pengarah terlebih dahulu bagi perubahan itu.

Melaporkan perubahan dalam maklumat yang diberikan bagi maksud permohonan lesen

21. Seseorang pemohon bagi lesen atau bagi membaharui atau memindah milik lesen itu hendaklah, dalam tujuh hari daripada berlakunya apa-apa perubahan material mengenai apa-apa maklumat yang telah diberikan dalam permohonannya atau yang telah diberikan secara bertulis menurut permintaan oleh Ketua Pengarah di bawah subseksyen 11(2) Akta, memberi Ketua Pengarah suatu laporan secara bertulis mengenai perubahan ini.

Pempameran lesen

22. Seseorang pemegang lesen hendaklah mempamerkan lesennya, bersama-sama dengan tiap-tiap dokumen yang menjadi sebahagian daripada lesen itu, di tempat yang mudah dilihat dalam bangunan utama stesen pemindahan sisa pepejal atau kambus tanah itu.

Penerusan syarat-syarat dan sekatan yang ada sekiranya berlaku perubahan dalam penghunian

23. Jika seseorang menjadi penghuni stesen pemindahan sisa pepejal atau kambus tanah berlesen menggantikan orang lain yang memegang lesen yang belum tamat tempohnya berkenaan dengan stesen pemindahan sisa pepejal atau kambus tanah itu, maka—

- (a) bagi tempoh empat belas hari selepas perubahan dalam penghunian itu; atau
- (b) jika penghuni baru itu memohon dalam tempoh yang dinyatakan dalam perenggan (a) untuk memindah milik lesen itu kepadanya, bagi tempoh daripada perubahan dalam penghunian sehingga penentuan muktamad dibuat mengenai permohonannya,

syarat-syarat dan sekatan lesen itu adalah mengikat penghuni baru itu dan hendaklah dipatuhi olehnya, tanpa mengira dia masih belum menjadi pemegang lesen atau lesen itu mungkin, dalam tempoh sebagaimana yang dinyatakan dalam perenggan (a) atau (b), mengikut mana-mana yang berkenaan, telah habis tempohnya.

Penyenggaraan rekod

24. (1) Seseorang pemunya atau penghuni stesen pemindahan sisa pepejal atau kabus tanah hendaklah menyenggara rekod seperti yang berikut:

- (a) pengendalian, penyenggaraan dan pemantauan prestasi sistem pengolahan larut resapan;
- (b) pelaksanaan program pemantauan air daratan dan air bawah tanah;
- (c) pelaksanaan program pemantauan gas kabus tanah;
- (d) pelaksanaan program pemantauan untuk sistem pengumpulan dan pengeluaran larut resapan (LCRS);
- (e) pelaksanaan program pengawalan sisa untuk memastikan sisa terjadual tidak diterima untuk pelupusan; dan
- (f) pemantauan data pembuangan larut resapan.

(2) Rekod di bawah subperaturan (1) hendaklah dikemukakan kepada Ketua Pengarah dan dijadikan tersedia untuk pemeriksaan oleh mana-mana pegawai yang diberi kuasa.

Latihan kakitangan

25. (1) Seseorang pemunya atau penghuni stesen pemindahan sisa pepejal atau kabus tanah—

- (a) hendaklah memastikan bahawa kakitangannya menghadiri latihan mengenai keperluan alam sekitar dan amalan terbaik untuk mengawal pencemaran daripada stesen pemindahan sisa pepejal atau kabus tanah itu sebelum mereka memulakan kerja;
- (b) hendaklah memastikan bahawa latihan untuk kakitangannya termasuklah latihan semula mengenai pengemaskinian kehendak dan tatacara baru, yang dikaji semula dan yang ada; dan
- (c) hendaklah menyenggara rekod latihan yang hendaklah termasuk tarikh latihan, nama dan jawatan kakitangan, penyedia latihan dan perihalan ringkas kandungan latihan.

(2) Rekod di bawah perenggan (1)(c) hendaklah dikemukakan kepada Ketua Pengarah apabila diminta dan hendaklah dijadikan tersedia untuk pemeriksaan oleh pegawai diberi kuasa.

Pemunya atau penghuni hendaklah memberikan bantuan semasa pemeriksaan

26. Seseorang pemunya atau penghuni mana-mana stesen pemindahan sisa pepejal atau kabus tanah hendaklah memberi Ketua Pengarah atau mana-mana pegawai diberi kuasa segala bantuan yang munasabah dan kemudahan yang terdapat di stesen pemindahan sisa pepejal atau kabus tanah itu, termasuklah buruh, kelengkapan, alat dan peralatan yang Ketua Pengarah atau pegawai diberi kuasa mungkin menghendaknya bagi maksud pemeriksaan.

Fi lesen

27. (1) Fi bagi lesen, termasuk pembaharuan lesen ialah lima ratus ringgit dan penambahan fi berkaitan larut resapan yang dikira mengikut kaedah sebagaimana yang dinyatakan dalam Jadual Kelima.

(2) Fi bagi lesen, termasuk pembaharuan lesen ialah lima ratus ringgit hendaklah disertakan dengan permohonan itu dan tidak boleh dikembalikan.

(3) Fi berkaitan larut resapan tidak perlu dibayar sehingga diminta.

(4) Fi bagi suatu pindah milik lesen ialah satu ratus ringgit.

Penepian fi

28. (1) Jika Ketua Pengarah berpuas hati bahawa penyelidikan mengenai pengolohan dan pelupusan larut resapan yang sedang atau akan dijalankan ke atas mana-mana stesen pemindahan sisa pepejal atau kambus tanah berlesen mungkin memberi faedah bagi perlindungan alam sekitar, dia boleh, dengan kelulusan Menteri, mengeneipkan sepenuhnya atau sebahagiannya mana-mana fi lesen berkaitan larut resapan yang kena dibayar menurut peraturan 27.

(2) Dalam memutuskan takat penepian itu, Ketua Pengarah adalah dipandu oleh pertimbangan muatan pencemaran larut resapan yang dibuang atau yang akan dibuang.

Penalti

29. Mana-mana orang yang melanggar peraturan 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 24, 25 dan 26 melakukan suatu kesalahan dan boleh, apabila disabitkan, didenda tidak melebihi satu ratus ribu ringgit atau dipenjarakan selama tempoh tidak melebihi lima tahun atau kedua-duanya dan denda selanjutnya tidak melebihi satu ribu ringgit sehari bagi tiap-tiap hari kesalahan itu diteruskan selepas notis oleh Ketua Pengarah menghendakinya untuk memberhentikan perbuatan sebagaimana yang dinyatakan dalam notis itu telah diserahkan kepadanya.

Peruntukan pembatalan, peralihan dan kecualian

30. (1) Peraturan-Peraturan Kualiti Alam Sekeliling (Kumbahan dan Efluen-Efluen Perindustrian) 1979 [*P.U. (A) 12/1979*] dibatalkan (selepas ini disebut sebagai “Peraturan-Peraturan yang dibatalkan”).

(2) Apa-apa permohonan yang dibuat di bawah Peraturan-Peraturan yang dibatalkan bagi suatu lesen untuk melanggar syarat-syarat yang boleh diterima, pembaharuan atau pindah milik lesen itu, atau kebenaran bertulis, yang belum selesai sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini

hendaklah, selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini, dipelakukan di bawah Peraturan-Peraturan yang dibatalkan itu dan bagi maksud itu hendaklah dianggap seolah-olah Peraturan-Peraturan ini tidak dibuat.

(3) Semua lesen yang dikeluarkan dan kebenaran bertulis yang diberikan di bawah Peraturan-Peraturan yang dibatalkan hendaklah, selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini, terus kekal berkuat kuasa sepenuhnya sehingga lesen itu habis tempoh, dipinda, digantung atau dibatalkan atau kebenaran bertulis habis tempoh atau dibatalkan di bawah Peraturan-Peraturan yang dibatalkan dan bagi maksud itu hendaklah dianggap seolah-olah Peraturan-Peraturan ini tidak dibuat.

(4) Apa-apa prosiding, sama ada sivil atau jenayah, yang telah dimulakan di bawah Peraturan-Peraturan yang dibatalkan dan belum selesai pada tarikh permulaan kuat kuasa Peraturan-Peraturan ini hendaklah, pada tarikh permulaan kuat kuasa Peraturan-Peraturan ini, diteruskan dan diselesaikan di bawah Peraturan-Peraturan yang dibatalkan dan bagi maksud itu hendaklah dianggap seolah-olah Peraturan-Peraturan ini tidak dibuat.

JADUAL PERTAMA
(Peraturan 4)

PEMBERITAHUAN BERTULIS PUNCA BARU PEMBUANGAN LARUT RESAPAN

Saya, yang bertandatangan di bawah dengan ini memaklumkan bahawa stesen pemindahan sisa pepejal atau kambus tanah* dengan butir-butir yang berikut** akan dibina di yang boleh menyebabkan satu punca baru pembuangan atau pelepasan larut resapan. Saya juga mengaku bahawa semua maklumat yang diberikan dalam pemberitahuan ini adalah benar dan betul sepanjang pengetahuan dan kepercayaan saya.

Tandatangan orang yang bertanggungjawab:

.....

Nama:

Jawatan:

Tarikh:

Nama dan alamat stesen pemindahan sisa pepejal atau kambus tanah:

.....

.....

Alamat surat menyurat stesen pemindahan sisa pepejal atau kambus tanah (jika berlainan daripada yang di atas):

.....

.....

Nombor telefon: Nombor faks:.....

Nombor rujukan fail Jabatan Alam Sekitar (jika berkenaan):

.....

(Capkan meterai atau cap rasmi syarikat yang memiliki stesen pemindahan sisa pepejal atau kambus tanah)

* Potong mana-mana yang tidak berkenaan

**** MAKLUMAT YANG PERLU DILAMPIRKAN PADA
PEMBERITAHUAN BERTULIS**

KAMBUS TANAH

1. Pelan lokasi dan tapak dengan skala yang sesuai menunjukkan dengan jelas lokasi dan sempadan kambus tanah yang dicadangkan, zon penimbal, kawasan kambus sisa dan kontur, struktur kawalan larian permukaan, jalan dan struktur atas tapak, reka bentuk penutup terakhir, petunjuk pembuangan larut resapan daripada kambus tanah dan kegunaan tanah dalam 1000 meter radius kambus tanah yang dicadangkan
2. Pengiraan reka bentuk, parameter reka bentuk dan lukisan kejuruteraan sistem pemungutan dan pembuangan larut resapan (LCRS) yang disediakan oleh jurutera profesional
3. Pelan jaminan kualiti dan kawalan kualiti untuk pembinaan sistem pemungutan dan pembuangan larut resapan (LCRS) yang disediakan oleh jurutera profesional
4. Parameter reka bentuk, pengiraan reka bentuk dan lukisan kejuruteraan sistem pengolahan larut resapan yang disediakan oleh seorang jurutera profesional
5. Cadangan tatacara pemantauan prestasi bagi semua komponen sistem pengolahan larut resapan yang disediakan oleh jurutera profesional
6. Parameter reka bentuk, pengiraan reka bentuk dan lukisan kejuruteraan sistem pemungutan dan pelupusan gas kambus tanah yang disediakan oleh jurutera profesional
7. Pelan lokasi dan susun atur dan lukisan kejuruteraan takat pelepasan akhir yang diperakui oleh jurutera profesional
8. Longitud dan latitud petunjuk pelepasan akhir bagi larut resapan terolah ke saluran air
9. Sistem bagi memantau sistem pemungutan dan pembuangan larut resapan (LCRS), larut resapan, air daratan dan air bawah tanah dan gas kambus tanah yang disediakan oleh jurutera profesional
10. Pelan bagi penutupan tapak dan penjagaan pasca-penutupan
11. Rancangan luar jangka bagi kawalan larut resapan
12. Pengiraan reka bentuk dan lukisan reka bentuk pemungutan air ribut
13. Tatacara operasi dan penyenggaraan tapak bagi menangani perkara seperti yang berikut: kriteria penerimaan sisa; program kawalan sisa untuk memastikan sisa terjadual tidak diterima untuk pelupusan; penyeliaan dan sekuriti tapak; aktiviti pelupusan sisa dan penutupan; amalan operasi untuk mengurangkan bau dan pengeluaran habuk; pemantauan tapak dan pelan respons aduan pencemaran
14. Maklumat mengenai tarikh permulaan kerja yang dijangkakan di kambus tanah yang dicadangkan dan tarikh kambus tanah dijangka mula beroperasi.

STESEN PEMINDAHAN SISA PEPEJAL

1. Pelan lokasi dan tapak dengan skala yang sesuai menunjukkan dengan jelas lokasi dan sempadan stesen pemindahan sisa pepejal yang dicadangkan dan kegunaan tanah dalam 500 meter radius stesen pemindahan sisa pepejal yang dicadangkan

2. Maklumat mengenai bagaimana larut resapan, bunyi bising, bau dan pencemaran udara yang dihasilkan daripada stesen pemindahan sisa pepejal akan diuruskan
3. Maklumat mengenai tarikh permulaan kerja yang dijangkakan di stesen pemindahan sisa pepejal yang dicadangkan dan tarikh stesen pemindahan sisa pepejal dijangka mula beroperasi.

JADUAL KEDUA
(Peraturan 13)

**SYARAT-SYARAT YANG BOLEH DITERIMA BAGI PEMBUANGAN LARUT
RESAPAN**

| | (1) | (2) | (3) |
|----------|----------------------------|-------------|-----------------|
| | Parameter | Unit | Standard |
| (i) | Suhu | °C | 40 |
| (ii) | Nilai pH | — | 6.0-9.0 |
| (iii) | BOD ₅ pada 20°C | mg/L | 20 |
| (iv) | COD | mg/L | 400 |
| (v) | Pepejal Terampai | mg/L | 50 |
| (vi) | Nitrogen Ammonia | mg/L | 5 |
| (vii) | Raksa | mg/L | 0.005 |
| (viii) | Kadmium | mg/L | 0.01 |
| (ix) | Khromium, Heksavalen | mg/L | 0.05 |
| (x) | Kromium, Trivalensi | mg/L | 0.20 |
| (xi) | Arsenik | mg/L | 0.05 |
| (xii) | Sianid | mg/L | 0.05 |
| (xiii) | Plumbum | mg/L | 0.10 |
| (xiv) | Tembaga | mg/L | 0.20 |
| (xv) | Mangan | mg/L | 0.20 |
| (xvi) | Nikel | mg/L | 0.20 |
| (xvii) | Timah | mg/L | 0.20 |
| (xviii) | Zink | mg/L | 2.0 |
| (xix) | Boron | mg/L | 1.0 |
| (xx) | Besi | mg/L | 5.0 |
| (xxi) | Perak | mg/L | 0.10 |
| (xxii) | Selenium | mg/L | 0.02 |
| (xxiii) | Barium | mg/L | 1.0 |
| (xxiv) | Fluorida | mg/L | 2.0 |
| (xxv) | Formaldehid | mg/L | 1.0 |
| (xxvi) | Fenol | mg/L | 0.001 |
| (xxvii) | Sulfid | mg/L | 0.50 |
| (xxviii) | Minyak dan Gris | mg/L | 5.0 |
| (xix) | Warna | ADMI* | 100 |

* ADMI- American Dye Manufacturers Institute

JADUAL KETIGA
(Peraturan 15)

KAEDAH PENGANALISISAN LARUT RESAPAN

1. Edisi ke-21 "*Standard Methods for the Examination of Water and Wastewater*" yang diterbitkan bersama oleh *American Public Health Association, the American Water Works Association* dan *the Water Environment Federation of the United States of America*
2. "*Code of Federal Regulations, Title 40, Chapter 1, Subchapter D, Part 136*" yang diterbitkan oleh *Office of the Federal Register, National Archives and Records Administration, United States of America*

JADUAL KEEMPAT
(Peraturan 16)

SPESIFIKASI PETUNJUK PEMBUANGAN LARUT RESAPAN

1. Petunjuk pembuangan terletak di dalam sempadan kambus tanah, sebaik selepas unit terakhir operasi atau unit proses sistem pengolahan larut resapan.
2. Lokasi petunjuk pembuangan mudah diakses dan tidak mendatangkan bahaya kepada kakitangan yang menjalankan pemeriksaan di tapak atau pensampelan larut resapan.
3. Larut resapan yang dibuang melalui paip, pembuluh atau saluran untuk memudahkan pensampelan larut resapan.
4. Petunjuk pembuangan yang dikenal pasti secara fizikal dengan memasang tanda pengenalan logam yang dibaca "Petunjuk Perhitungan Terakhir".
5. Petunjuk pembuangan dan sekitarnya disenggarakan dengan betul supaya bebas daripada apa-apa halangan yang boleh mendatangkan kesulitan atau bahaya semasa pemeriksaan di tapak atau pensampelan larut resapan.

JADUAL KELIMA
(Peraturan 27)

KAEDAH MENGHITUNG FI LESEN BERKAITAN LARUT RESAPAN

| <i>Parameter</i> | <i>Fi setiap kg bahan pencemar yang dibuang</i> |
|--------------------------------|---|
| (i) BOD ₅ pada 20°C | RM 0.50 |
| (ii) Nitrogen Ammonia | RM 500.00 |
| (iii) Raksa | RM 2500.00 |
| (iv) Kadmium | RM 2500.00 |
| (v) Kromium, Heksavalen | RM 2500.00 |
| (vi) Kromium, Trivalensi | RM 2500.00 |
| (vii) Arsenik | RM 2500.00 |
| (viii) Sianid | RM 2500.00 |
| (ix) Plumbum | RM 2500.00 |
| (x) Tembaga | RM 2500.00 |
| (xi) Mangan | RM 2500.00 |
| (xii) Nikel | RM 2500.00 |

| <i>Parameter</i> | <i>Fi setiap kg bahan pencemar yang dibuang</i> |
|--|---|
| (xiii) Timah | RM 2500.00 |
| (xiv) Perak | RM 2500.00 |
| (xv) Selenium | RM 2500.00 |
| (xvi) Barium | RM 2500.00 |
| (xvii) Fluorida | RM 2500.00 |
| (xviii) Formaldehid | RM 2500.00 |
| (xix) Zink | RM 500.00 |
| (xx) Boron | RM 500.00 |
| (xxi) Besi | RM 500.00 |
| (xxii) Fenol | RM 500.00 |
| (xxiii) Sulfid | RM 500.00 |
| (xxiv) Minyak dan Gris (ekstrak-n- heksane) | RM 500.00 |

Dibuat 12 Oktober 2009

[AS(S) 91/110/919/026; PN(PU²)280/XII]

DATUK DOUGLAS UGGAH EMBAS
Menteri Sumber Asli dan Alam Sekitar

ENVIRONMENTAL QUALITY ACT 1974

ENVIRONMENTAL QUALITY (CONTROL OF POLLUTION FROM SOLID WASTE TRANSFER STATION AND LANDFILL) REGULATIONS 2009

ARRANGEMENT OF REGULATIONS

Regulation

1. Citation
2. Interpretation
3. Application
4. Notification for new source of leachate discharge or release
5. Operation of solid waste transfer station and landfill
6. Landfill gas collection and disposal system
7. Control of ground water pollution
8. Monitoring of leachate discharge
9. Provision of leachate treatment system
10. Proper operation of leachate treatment system
11. Performance monitoring of leachate treatment system
12. Competent person
13. Acceptable conditions for discharge of leachate
14. Licence to contravene acceptable conditions for discharge of leachate
15. Method of analysis and sampling of leachate
16. Point of discharge of leachate
17. Prohibition against leachate discharge or release through by-pass
18. Dilution of leachate
19. Spill, accidental discharge or leakage of leachate
20. Making changes that alter quality of leachate
21. Reporting changes in information furnished for purposes of application for licence
22. Display of licence
23. Continuance of existing conditions and restrictions in case of change in occupancy
24. Maintenance of record
25. Personnel training

Regulation

26. Owner or occupier to render assistance during inspection
27. Licence fee
28. Waiver of fee
29. Penalty
30. Revocation, transitional and savings provision

FIRST SCHEDULE

SECOND SCHEDULE

THIRD SCHEDULE

FOURTH SCHEDULE

FIFTH SCHEDULE

ENVIRONMENTAL QUALITY ACT 1974

ENVIRONMENTAL QUALITY (CONTROL OF POLLUTION FROM SOLID WASTE TRANSFER STATION AND LANDFILL) REGULATIONS 2009

In exercise of the powers conferred by sections 21, 24 and 51 of the Environmental Quality Act 1974 [*Act 127*] the Minister, after consultation with the Environmental Quality Council, makes the following regulations:

Citation

1. These regulations may be cited as the **Environmental Quality (Control of Pollution from Solid Waste Transfer Station and Landfill) Regulations 2009**.

Interpretation

2. In these Regulations—

“leachate” means liquid that has percolated through solid waste and has been extracted or dissolved, or suspended materials from the solid waste, or liquid discharged or released from a solid waste transfer station or landfill;

“professional engineer” has the same meaning assigned to it in the Registration of Engineers Act 1967 [*Act 138*];

“landfill” means a waste disposal site for the deposit of solid waste onto or into land;

“licence” means a licence referred to in regulation 14 pursuant to subsection 25(1) of the Act;

“authorized officer” means such officer appointed under section 3 of the Act or any other officer to whom the Director General has delegated his power under section 49 of the Act;

“solid waste” has the same meaning assigned to it in the Solid Waste and Public Cleansing Management Act [*Act 672*] and “solid waste transfer station” means a facility where solid waste is received for the purpose of subsequent transfer to another facility for further processing, treatment, transfer or disposal;

“leachate treatment system” means any facility designed and constructed for the purpose of reducing the potential of the leachate to cause pollution;

“leachate collection and removal system (LCRS)” includes the liner system, the drainage layer, leachate trench and pipe, leachate line clean-out ports, leachate collection pump and lift station and leachate storage tank system;

Application

3. These Regulations shall apply to solid waste transfer stations and landfills which discharge or release leachate.

Notification for new source of leachate discharge or release

4. (1) Notwithstanding any other provisions in these Regulations, no person shall, without the prior written notification to the Director General, carry out any work on any solid waste transfer station or landfill, or construct on any land any facility or building that may result in a new source of leachate discharge or release.

(2) In this regulation, “new source of leachate discharge or release” means any solid waste transfer station or landfill, that has not yet been in operation or for which written permission has not been given by the Director General.

(3) The written notification to the Director General referred to in subregulation (1) shall be accompanied by the information as specified in the First Schedule.

Operation of solid waste transfer station and landfill

5. An owner or occupier of a solid waste transfer station or landfill shall operate the solid waste transfer station or landfill in such a manner that the following are strictly controlled:

- (a) noise, dust or odours;
- (b) air pollution;
- (c) pollution of the soil, surface water or ground water; and
- (d) entry and disposal of scheduled wastes.

Landfill gas collection and disposal system

6. An owner or occupier of a landfill shall operate a landfill gas collection and disposal system to minimize the impact resulting from the generation of landfill gas.

Control of ground water pollution

7. An owner or occupier of a landfill shall—
- (a) ensure that the design and operation of the landfill incorporates measures to prevent and control the pollution to ground water; and
 - (b) establish and operate a ground water monitoring program to monitor the leakage or movement of leachate from the landfill.

Monitoring of leachate discharge

8. An owner or occupier of a landfill that discharges leachate onto or into any soil, or into any inland waters or Malaysian waters shall, at his own expense—

- (a) monitor the concentration of ammoniacal nitrogen in the leachate discharged from the landfill on a continuous basis using the on-line instrumentation system which is linked to the Department of Environment;
- (b) monitor the concentration of other parameters as listed in the first column of the Second Schedule in the leachate discharged from the landfill; and
- (c) install flow-meters, monitoring equipment, sampling equipment and recording equipment for the purpose of monitoring leachate discharge.

Provision of leachate treatment system

9. No person shall operate a solid waste transfer station or landfill without a leachate treatment system.

Proper operation of leachate treatment system

10. (1) An owner or occupier of a solid waste transfer station or landfill shall operate and maintain a leachate treatment system in accordance with sound engineering practice for the treatment of leachate and ensure that all components of the leachate treatment system are in good working condition.

(2) In this regulation, “sound engineering practice” means the manner by which a leachate treatment system is operated where the operational characteristics are maintained within the normal range of values commonly used for the treatment of leachate.

Performance monitoring of leachate treatment system

11. (1) An owner or occupier of a solid waste transfer station or landfill shall—

- (a) conduct performance monitoring of the components of the leachate treatment system; and
- (b) equip himself or itself with facilities, relevant equipment or instruments for the purpose of conducting performance monitoring of the leachate treatment system referred to in paragraph (a).

(2) In this regulation, “performance monitoring” means the routine monitoring of certain characteristics to provide an indication that a treatment process is functional and capable of treating leachate.

Competent person

12. (1) The operation of a leachate treatment system shall be supervised by a competent person.

(2) A competent person shall be any person who has been certified by the Director General that he is duly qualified to operate a leachate treatment system for a solid waste transfer station or a landfill.

(3) An owner or occupier of the solid waste transfer station or landfill shall ensure that a competent person is on duty at any time the leachate treatment system is in operation.

Acceptable conditions for discharge of leachate

13. No person shall discharge leachate which contains substances in concentrations greater than those specified as acceptable conditions as shown in the third column of the Second Schedule, onto or into any soil, or into any inland waters or Malaysian waters.

Licence to contravene the acceptable conditions for discharge of leachate

14. (1) Any person may apply for a licence under subsection 25(1) of the Act to contravene the acceptable conditions of discharge of leachate as specified in regulation 6.

(2) An application for a licence under subregulation (1) shall be made in accordance with the procedures as specified in the Environmental Quality (Licensing) Regulations 1977 [*P.U. (A) 198/1977*] and shall be accompanied by—

(a) a report on leachate characterization study; and

(b) a licence and leachate-related fee as specified in regulation 27.

Method of analysis and sampling of leachate

15. (1) An authorized officer may carry out an *in-situ* or *ex-situ* analysis of leachate using any instrument approved by the Director General.

(2) An analysis of leachate discharged or released onto or into any soil, or into any inland waters or Malaysian waters shall be carried out in accordance with any of the methods contained in the publications as specified in the Third Schedule.

(3) The analysis of leachate referred to in this regulation shall be based on grab samples.

(4) In this regulation—

- (a) “*ex-situ* analysis” means the analysis of leachate conducted on a sample that has been removed from its location and conducted at a different site and not at the site from where the sample was taken;
- (b) “*in-situ* analysis” means the analysis of leachate conducted on a sample without removing it from its location or conducted on a sample at the original site from where the sample was taken; and
- (c) “grab sample” means a discrete individual sample taken within a short period of time of less than fifteen minutes.

Point of discharge of leachate

16. (1) The point of discharge of leachate shall comply with the specifications as specified in the Fourth Schedule and shall be clearly indicated by the owner or occupier of a solid waste transfer station or landfill on the layout plans and engineering drawings certified by a professional engineer.

(2) An owner or occupier of a solid waste transfer station or landfill shall submit to the Director General the layout plans and engineering drawings referred to in subregulation (1).

(3) Where an owner or occupier of a solid waste transfer station or landfill proposes to make any alteration or change to the location or position of the point of discharge of leachate or design of the outlet at the point of discharge of leachate, he or it shall notify the Director General within thirty days prior to the making of such alteration or change.

Prohibition against leachate discharge or release through by-pass

17. (1) No person shall discharge or release or cause or permit to be discharged or released leachate onto or into any soil, or into any inland waters or Malaysian waters through a by-pass.

(2) In this regulation, “by-pass” means any intentional diversion of leachate discharge from any portion of a leachate treatment system.

Dilution of leachate

18. (1) No person shall dilute, or cause or permit to be diluted, any leachate, whether raw or treated at any time or point after it is produced at any solid waste transfer station or landfill.

(2) Leachate becomes diluted when it undergoes a process to make it less concentrated by adding water or other liquids from external sources other than liquids or materials used for treating leachate.

Spill, accidental discharge or leakage of leachate

19. (1) In the event of the occurrence of any spill, accidental discharge or leakage of any leachate which either directly or indirectly gains or may gain access onto or into any soil, or into any inland waters or Malaysian waters, the owner or occupier of the solid waste transfer station or landfill shall immediately and not more than six hours from the time of the occurrence inform the Director General of the occurrence.

(2) An owner or occupier of the solid waste transfer station or landfill shall, to every reasonable extent, contain, cleanse or abate the spill, accidental discharge or leakage or recover the leachate discharged in a manner that satisfies the Director General.

(3) The Director General may in any particular case, if he considers it necessary to do so, specify the manner in which the spill, accidental discharge or leakage is to be contained, cleansed or abated and the owner or occupier of the solid waste transfer station or landfill shall comply with such specification.

(4) The Director General shall determine any damage caused by any spill, accidental discharge or leakage and may recover all costs and expenses from the owner or occupier of the solid waste transfer station or landfill.

(5) Where the Director General undertakes to cleanse or abate any spill, accidental discharge or leakage, he shall determine the full costs and expenses incurred and recover such costs and expenses from the owner or occupier of the solid waste transfer station or landfill in accordance with the provisions of section 47 of the Act.

Making changes that alter quality of leachate

20. The holder of a licence shall not make, or cause or permit to be made, any changes to a solid waste transfer station or landfill or in the manner of maintaining or operating the solid waste transfer station or landfill, which cause, or is intended or is likely to cause, a material increase in the quantity or quality of leachate or both discharged from the solid waste transfer station or landfill, unless the prior written approval of the Director General has been obtained for the change.

Reporting changes in information furnished for purposes of application for licence

21. An applicant for a licence or for the renewal or transfer of such licence shall, within seven days of the occurrence of any material change in any information furnished in his application or furnished in writing pursuant to a request by the Director General under subsection 11(2) of the Act, give the Director General a report in writing of the change.

Display of licence

22. The holder of a licence shall display his licence, together with every document forming part of the licence, in a conspicuous place in the principal building of the solid waste transfer station or landfill.

Continuance of existing conditions and restrictions in case of change in occupancy

23. Where a person becomes the occupier of a licensed solid waste transfer station or landfill in succession to another person who holds an unexpired licence in respect of such solid waste transfer station or landfill, then—

- (a) for a period of fourteen days after the change in occupancy; or
- (b) where the new occupier applies within the period specified in paragraph (a) for the transfer of the licence to him, for the period from the change in occupancy until the final determination of his application,

the conditions and restrictions of the licence shall be binding on the new occupier and shall be observed by him, notwithstanding that he is not yet the holder of the licence or that the licence may, during the period as specified in paragraph (a) or (b), as the case may be, have expired.

Maintenance of record

24. (1) An owner or occupier of a solid waste transfer station or landfill shall maintain records on the following:

- (a) operation, maintenance and performance monitoring of the leachate treatment system;
- (b) implementation of surface and ground water monitoring program;
- (c) implementation of landfill gas monitoring program;
- (d) implementation of the monitoring program for the leachate collection and removal system (LCRS);
- (e) implementation of waste control program to ensure scheduled wastes are not accepted for disposal; and
- (f) leachate discharge monitoring data.

(2) The records under subregulation (1) shall be submitted to the Director General and made available for inspection by any authorized officer.

Personnel training

25. (1) An owner or occupier of a solid waste transfer station or landfill—

- (a) shall ensure that his or its employees attend training on environmental requirements and on the best practices to control pollution from the solid waste transfer station or landfill before they begin work;

- (b) shall ensure that the training for his or its employees include retraining on updates for new, revised and existing requirements and procedures; and
- (c) shall maintain records of training which shall include the training date, name and position of employee, training provider and a brief description of the training content.

(2) The record under paragraph (1)(c) shall be submitted to the Director General upon request and shall be made available for inspection by an authorized officer.

Owner or occupier to render assistance during inspection

26. An owner or occupier of any solid waste transfer station or landfill shall provide the Director General or any authorized officer every reasonable assistance and facility available at the solid waste transfer station or landfill, including labour, equipment, appliances, and instruments that the Director General or authorized officer may require for the purpose of inspection.

Licence fee

27. (1) The fee for a licence, including the renewal of a licence shall be five hundred ringgit and an additional leachate-related fee computed in accordance with the method as specified in the Fifth Schedule.

(2) The fee for a licence, including the renewal of a licence of five hundred ringgit shall accompany the application and shall not be refundable.

(3) The leachate-related fee shall not become due until called for.

(4) The fee for a transfer of licence shall be one hundred ringgit.

Waiver of fee

28. (1) If the Director General is satisfied that research on leachate treatment and disposal that is being or is to be conducted on any licensed solid waste transfer station or landfill is likely to benefit the cause of environmental protection, he may, with the approval of the Minister, wholly, or partly, waive any leachate-related licence fee payable by virtue of regulation 27.

(2) In deciding the extent of the waiver, the Director General shall be guided by the consideration of the pollution loading of leachate being discharged or to be discharged.

Penalty

29. Any person who contravenes regulations 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 24, 25 and 26 shall be guilty of an offence and

shall, on conviction, be liable to a fine not exceeding one hundred thousand ringgit or to a term of imprisonment for a period not exceeding five years or to both and to a further fine not exceeding one thousand ringgit a day for every day that the offence is continued after the notice by the Director General requiring him to cease the act as specified in the notice has been served upon him.

Revocation, transitional and savings provision

30. (1) The Environmental Quality (Sewage and Industrial Effluents) Regulations 1979 [*P.U. (A) 12/1979*] is revoked (hereinafter referred to as “the revoked Regulations”).

(2) Any application made under the revoked Regulations for a licence to contravene the acceptable conditions, renewal or transfer of such licence, or written permission, which are pending immediately before the date of the coming into operation of these Regulations shall, after the date of the coming into operation of these Regulations, be dealt with under the revoked Regulations and for such purposes it shall be treated as if these Regulations have not been made.

(3) All licences issued and written permission granted under the revoked Regulations shall, after the date of the coming into operation of these Regulations, continue to remain in full force and effect until the licence expires, is amended, suspended or cancelled or written permission expires or is revoked under the revoked Regulations and for such purposes it shall be treated as if these Regulations has not been made.

(4) Any proceeding, whether civil or criminal, commenced under the revoked Regulations and are pending on the date of the coming into operation of these Regulations shall, on the date of the coming into operation of these Regulations, be continued and concluded under the revoked Regulations and for such purposes it shall be treated as if these Regulations have not been made.

FIRST SCHEDULE
(Regulation 4)

WRITTEN NOTIFICATION OF NEW SOURCES OF LEACHATE DISCHARGE

I, the undersigned hereby notify that a solid waste transfer station or landfill* with the following details** will be constructed at..... that may result in a new source of leachate discharge or release. I also declare that all information given in this notification is to the best of my knowledge and belief true and correct.

Signature of responsible person:

.....

Name:

Designation:

Date:

Name and address of the solid waste transfer station or landfill:

.....
.....

Mailing address of the solid waste transfer station or landfill (if different from above)

.....

Telephone number:..... Fax number:.....

File reference number of Department of Environment (if applicable):.....

(Affix official seal or stamp of company which owns the solid waste transfer station or landfill)

* Delete whichever is not applicable

**** INFORMATION TO BE ATTACHED TO THE WRITTEN NOTIFICATION**

LANDFILL

1. Location and site plans of appropriate scale clearly indicating the location and boundary of the proposed landfill, buffer zone, waste fill area and contours, surface run-off control structures, on-site roads and structures, final cover design, the point of leachate discharge from the landfill and land use within 1000 meters radius of the proposed landfill
2. Design calculations, design parameters and engineering drawings of the leachate collection and removal system (LCRS) prepared by a professional engineer
3. Quality assurance and quality control plans for the construction of the leachate collection and removal system (LCRS) prepared by a professional engineer
4. Design parameters, design calculations and engineering drawings of the leachate treatment system prepared by a professional engineer
5. Proposed performance monitoring procedure for all the components of the leachate treatment system prepared by a professional engineer
6. Design parameters, design calculations and engineering drawings of the landfill gas collection and disposal system prepared by a professional engineer
7. Location and layout plan and engineering drawings of the final discharge point certified by a professional engineer
8. Longitude and latitude of the final discharge point for the treated leachate to the watercourse
9. System for monitoring the leachate collection and removal system (LCRS), leachate, surface and ground water and landfill gas prepared by a professional engineer
10. Plans for site closure and post-closure care
11. Contingency plan for leachate control
12. Design calculations and design drawings of stormwater collection
13. Site operation and maintenance procedures addressing the following items: waste acceptance criteria; waste control program to ensure scheduled wastes are not accepted for disposal; site supervision and security; waste disposal and covering activities; operational practices to reduce odour and dust emissions; site monitoring and pollution complaint response plan

14. Information on the expected date of commencement of work at the proposed landfill and the date the landfill is expected to commence operation.

SOLID WASTE TRANSFER STATION

1. Location and site plans of appropriate scale clearly indicating the location and boundary of the proposed solid waste transfer station and land use within 500 metres radius of the proposed solid waste transfer station
2. Information on how leachate, noise, odour and air pollution generated from the solid waste transfer station will be managed
3. Information on the expected date of commencement of work at the proposed solid waste transfer station and the date the solid waste transfer station is expected to commence operation.

SECOND SCHEDULE (Regulation 13)

ACCEPTABLE CONDITIONS FOR DISCHARGE OF LEACHATE

| | (1) Parameter | (2) Unit | (3) Standard |
|---------|--------------------------|-------------|-----------------|
| (i) | Temperature | °C | 40 |
| (ii) | pH Value | - | 6.0-9.0 |
| (iii) | BOD ₅ at 20°C | mg/L | 20 |
| (iv) | COD | mg/L | 400 |
| (v) | Suspended Solids | mg/L | 50 |
| (vi) | Ammoniacal Nitrogen | mg/L | 5 |
| (vii) | Mercury | mg/L | 0.005 |
| (viii) | Cadmium | mg/L | 0.01 |
| (ix) | Chromium, Hexavalent | mg/L | 0.05 |
| (x) | Chromium, Trivalent | mg/L | 0.20 |
| (xi) | Arsenic | mg/L | 0.05 |
| (xii) | Cyanide | mg/L | 0.05 |
| (xiii) | Lead | mg/L | 0.10 |
| (xiv) | Copper | mg/L | 0.20 |
| (xv) | Manganese | mg/L | 0.20 |
| (xvi) | Nickel | mg/L | 0.20 |
| (xvii) | Tin | mg/L | 0.20 |
| (xviii) | Zinc | mg/L | 2.0 |
| (xix) | Boron | mg/L | 1.0 |
| (xx) | Iron | mg/L | 5.0 |
| (xxi) | Silver | mg/L | 0.10 |

| | (1) Parameter | (2) Unit | (3) Standard |
|----------|-------------------------|--------------------|------------------------|
| (xxii) | Selenium | mg/L | 0.02 |
| (xxiii) | Barium | mg/L | 1.0 |
| (xxiv) | Fluoride | mg/L | 2.0 |
| (xxv) | Formaldehyde | mg/L | 1.0 |
| (xxvi) | Phenol | mg/L | 0.001 |
| (xxvii) | Sulphide | mg/L | 0.50 |
| (xxviii) | Oil and Grease | mg/L | 5.0 |
| (xix) | Colour | ADMI* | 100 |

*ADMI- American Dye Manufacturers Institute

THIRD SCHEDULE (Regulation 15)

METHODS OF ANALYSIS OF LEACHATE

1. The 21st edition of "Standard Methods for the Examination of Water and Wastewater" published jointly by the American Public Health Association, the American Water Works Association and the Water Environment Federation of the United States of America
2. "Code of Federal Regulations, Title 40, Chapter 1, Subchapter D, part 136" published by the Office of the Federal Register, National Archives and Records Administration, United States of America

FOURTH SCHEDULE (Regulation 16)

SPECIFICATION OF POINT OF DISCHARGE OF LEACHATE

1. The discharge point is located within the boundary of the landfill, immediately after the final unit operation or unit process of the leachate treatment system.
2. The location of the discharge point is easily accessible and does not pose any safety hazards to personnel performing site inspection or leachate sampling.
3. The leachate is discharged through a pipe, conduit or channel to facilitate leachate sampling.
4. The discharge point is physically identified by installing a metal identification sign which reads "Final Discharge Point".
5. The discharge point and its surrounding are properly maintained to be free from any obstruction that may pose difficulty or hazards during site inspection or leachate sampling.

FIFTH SCHEDULE
(Regulation 27)

METHOD OF COMPUTING LEACHATE-RELATED LICENCE FEE

| Parameter | Fee per kg of contaminant discharged |
|------------------------------|--------------------------------------|
| (i) BOD ₅ at 20°C | RM 0.50 |
| (ii) Ammoniacal Nitrogen | RM 500.00 |
| (iii) Mercury | RM 2500.00 |
| (iv) Cadmium | RM 2500.00 |
| (v) Chromium, Hexavalent | RM 2500.00 |
| (vi) Chromium, Trivalent | RM 2500.00 |
| (vii) Arsenic | RM 2500.00 |
| (viii) Cyanide | RM 2500.00 |
| (ix) Lead | RM 2500.00 |
| (x) Copper | RM 2500.00 |
| (xi) Manganese | RM 2500.00 |
| (xii) Nickel | RM 2500.00 |
| (xiii) Tin | RM 2500.00 |
| (xiv) Silver | RM 2500.00 |
| (xv) Selenium | RM 2500.00 |
| (xvi) Barium | RM 2500.00 |
| (xvii) Fluoride | RM 2500.00 |
| (xviii) Formaldehyde | RM 2500.00 |
| (xix) Zinc | RM 500.00 |
| (xx) Boron | RM 500.00 |
| (xxi) Iron | RM 500.00 |
| (xxii) Phenol | RM 500.00 |
| (xxiii) Sulfide | RM 500.00 |
| (xxiv) Oil and Grease | RM 500.00 |

Made 12 October 2009
[AS(S) 91/110/919/026; PN(PU²)280/XII]

DATUK DOUGLAS UGGAH EMBAS
Minister of Natural Resources and Environment

P.U. (A) 434.

AKTA KUALITI ALAM SEKELILING 1974

**PERATURAN-PERATURAN KUALITI ALAM SEKELILING
(EFLUEN PERINDUSTRIAN) 2009**

SUSUNAN PERATURAN-PERATURAN

Peraturan

1. Nama
2. Tafsiran
3. Pemakaian
4. Tanggungjawab untuk memberitahu Ketua Pengarah
5. Reka bentuk dan pembinaan sistem pengolahan efluen perindustrian
6. Pematuhan kepada spesifikasi sistem pengolahan efluen perindustrian
7. Pemantauan pembuangan efluen perindustrian atau efluen bercampur
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9. Pemantauan prestasi sistem pengolahan efluen
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11. Syarat-syarat yang boleh diterima bagi pembuangan efluen perindustrian selain parameter keperluan oksigen kimia (COD)
12. Syarat-syarat yang boleh diterima bagi pembuangan efluen perindustrian bagi parameter keperluan oksigen kimia (COD)
13. Syarat-syarat yang boleh diterima bagi pembuangan efluen bercampur bagi parameter keperluan oksigen kimia (COD)
14. Amalan pengurusan terbaik bagi pembuangan efluen perindustrian atau efluen bercampur bagi parameter lain
15. Lesen untuk melanggar syarat-syarat yang boleh diterima bagi pembuangan efluen perindustrian atau efluen bercampur
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17. Petunjuk pembuangan efluen perindustrian atau efluen bercampur
18. Larangan terhadap pembuangan efluen perindustrian atau efluen bercampur melalui pintasan
19. Pencairan efluen perindustrian atau efluen bercampur
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Peraturan

21. Larangan terhadap pembuangan efluen perindustrian atau efluen bercampur yang mengandungi bahan tertentu
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23. Sekatan pembuangan dan pelupusan enap cemar
24. Melaporkan perubahan tentang maklumat yang diberikan bagi maksud permohonan lesen
25. Pempameran lesen
26. Penerusan syarat-syarat dan sekatan yang ada sekiranya berlaku perubahan dalam penghunian
27. Penyenggaraan rekod
28. Latihan kakitangan
29. Pemunya atau penghuni hendaklah memberikan bantuan semasa pemeriksaan
30. Perintah larangan
31. Fi lesen
32. Penalti
33. Peruntukan pembatalan, peralihan dan kecualian

JADUAL PERTAMA

JADUAL KEDUA

JADUAL KETIGA

JADUAL KEEMPAT

JADUAL KELIMA

JADUAL KEENAM

JADUAL KETUJUH

JADUAL KELAPAN

JADUAL KESEMBILAN

JADUAL KESEPULUH

JADUAL KESEBELAS

JADUAL KEDUA BELAS

JADUAL KETIGA BELAS

AKTA KUALITI ALAM SEKELILING 1974

PERATURAN-PERATURAN KUALITI ALAM SEKELILING
(EFLUEN PERINDUSTRIAN) 2009

PADA menjalankan kuasa yang diberikan oleh seksyen 21, 24, 25 dan 51 Akta Kualiti Alam Sekeliling 1974 [*Akta 127*], Menteri, setelah berunding dengan Majlis Kualiti Alam Sekeliling, membuat Peraturan-Peraturan yang berikut:

Nama

1. Peraturan-Peraturan ini bolehlah dinamakan **Peraturan-Peraturan Kualiti Alam Sekeliling (Efluen Perindustrian) 2009**.

Tafsiran

2. Dalam Peraturan-Peraturan ini—

“amalan pengurusan terbaik” ertinya kaedah praktikal, struktural atau bukan struktural bagi maksud mencegah atau mengurangkan pembuangan efluen perindustrian atau efluen bercampur yang mengandungi bahan cemar;

“efluen perindustrian” ertinya apa-apa sisa dalam bentuk cecair atau air buangan yang terhasil daripada proses pengeluaran termasuklah rawatan air bagi pembekalan air atau mana-mana aktiviti yang berlaku di mana-mana premis perindustrian;

“efluen bercampur” ertinya apa-apa sisa dalam bentuk cecair atau air buangan yang mengandungi kedua-dua efluen perindustrian dan kumbahan;

“enap cemar” ertinya apa-apa enapan zarah daripada apa-apa cecair, termasuklah enapan yang terhasil daripada pengolahan fizikal, kimia, biologi atau pengolahan lain air atau efluen perindustrian atau efluen bercampur;

“jurutera profesional” mempunyai erti yang sama seperti yang diberikan kepadanya dalam Akta Pendaftaran Jurutera 1967 [*Akta 138*];

“kumbahan” ertinya apa-apa pembuangan sisa atau air buangan yang mengandungi jirim manusia, haiwan, domestik, atau zarah ampaian atau larutan, dan termasuk cecair yang mengandungi bahan kimia dalam keadaan larut sama ada dalam bentuk mentah, terolah atau separa terolah;

“lesen” ertinya lesen yang disebut dalam peraturan 15 menurut subseksyen 25(1) Akta;

“parameter” ertinya keperluan oksigen kimia atau mana-mana faktor yang ditunjukkan dalam ruang pertama Jadual Kelima atau dalam Jadual Kesembilan;

“pegawai diberi kuasa” ertinya mana-mana pegawai yang dilantik di bawah seksyen 3 Akta atau mana-mana pegawai yang Ketua Pengarah telah mewakilkan kuasanya di bawah seksyen 49 Akta;

“pembuangan berkelompok” ertinya apa-apa pembuangan terkawal dengan isi padu diskret efluen perindustrian atau efluen bercampur;

“premis berlesen” ertinya premis yang dihuni oleh seseorang yang merupakan pemegang lesen yang dikeluarkan berkenaan premis itu; dan

“sistem pengolahan efluen perindustrian” ertinya apa-apa kemudahan termasuklah sistem pemungutan efluen, yang direka bentuk dan dibina bagi maksud mengurangkan potensi efluen perindustrian atau efluen bercampur yang menyebabkan pencemaran.

Pemakaian

3. Peraturan-Peraturan ini hendaklah terpakai kepada premis yang membuang atau melepaskan efluen perindustrian atau efluen bercampur, ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia, selain premis sebagaimana yang dinyatakan dalam Jadual Pertama.

Tanggungjawab untuk memberitahu Ketua Pengarah

4. (1) Tiada seorang pun boleh, tanpa pemberitahuan bertulis kepada Ketua Pengarah terlebih dahulu—

- (a) menjalankan apa-apa kerja atas mana-mana premis yang boleh menghasilkan punca baru pembuangan efluen perindustrian atau efluen bercampur;
- (b) membina di atas mana-mana tanah, bangunan atau kemudahan yang direka bentuk atau digunakan bagi maksud yang boleh menyebabkan tanah atau bangunan atau kemudahan itu menghasilkan suatu punca baru pembuangan efluen perindustrian atau efluen bercampur;
- (c) membuat atau menyebabkan atau membenarkan untuk dibuat apa-apa perubahan, pada, atau dalam mana-mana loji, mesin, atau kelengkapan yang digunakan atau dipasang di dalam premis yang menyebabkan perubahan material dalam kuantiti atau kualiti pembuangan atau pembuangan daripada punca yang ada; atau
- (d) menjalankan kerja peningkatan sistem pengolahan efluen perindustrian yang ada yang boleh menyebabkan perubahan material dalam kuantiti atau kualiti pembuangan atau pelepasan.

(2) Pemberitahuan bertulis untuk menjalankan apa-apa kerja, pembinaan, atau peningkatan, atau membuat apa-apa perubahan yang disebut dalam subperaturan (1) hendaklah dikemukakan kepada Ketua Pengarah dalam bentuk sebagaimana yang dinyatakan dalam Jadual Kedua dalam masa tiga puluh hari sebelum kerja atau pembinaan atau peningkatan itu bermula.

Reka bentuk dan pembinaan sistem pengolahaan efluen perindustrian

5. (1) Seseorang pemunya atau penghuni premis hendaklah menjalankan reka bentuk dan pembinaan sistem pengolahaan efluen perindustrian untuk memungut dan mengolah efluen perindustrian atau efluen bercampur yang dihasilkan dalam premis dengan benar-benar mematuhi spesifikasi dalam Dokumen Panduan Mengenai Reka Bentuk dan Operasi Sistem Pengolahaan Efluen Perindustrian yang dikeluarkan oleh Jabatan Alam Sekitar.

(2) Pemunya atau penghuni premis itu hendaklah melantik jurutera profesional untuk menjalankan reka bentuk dan penyediaan pembinaan sistem pengolahaan efluen perindustrian dan kerja yang dilaksanakan hendaklah memuaskan hati Ketua Pengarah.

(3) Pemunya atau penghuni premis itu dan jurutera profesional yang disebut dalam subperaturan (2) hendaklah menyediakan suatu akuan bertulis dalam bentuk sebagaimana yang dinyatakan dalam Jadual Ketiga, memperakui bahawa reka bentuk dan pembinaan sistem pengolahaan efluen perindustrian telah mematuhi spesifikasi sebagaimana yang disebut dalam subperaturan (1).

(4) Lukisan seperti dibina yang menunjukkan penempatan apa-apa kerja atau struktur yang menjadi sebahagian daripada sistem pengolahaan efluen perindustrian hendaklah dikemukakan kepada Ketua Pengarah tidak lewat daripada tiga puluh hari dari tarikh premis itu memulakan operasi.

(5) Dalam peraturan ini, "lukisan seperti dibina" ertinya apa-apa lukisan kejuruteraan yang menunjukkan penempatan kemudahan sebagaimana yang diukur setelah kerja disiapkan.

Pematuhan kepada spesifikasi sistem pengolahaan efluen perindustrian

6. (1) Tiada seorang pun boleh mengendalikan mana-mana sistem pengolahaan efluen perindustrian melainkan jika ia mematuhi spesifikasi sebagaimana yang dinyatakan dalam subperaturan 5(1).

(2) Ketua Pengarah boleh mengeluarkan arahan kepada pemunya atau penghuni sesuatu premis yang tidak mematuhi subperaturan (1) menghendakinya supaya membaiki, mengubah, menggantikan atau memasang apa-apa kelengkapan atau instrumen tambahan atau untuk menjalankan pemantauan prestasi sistem pengolahaan efluen perindustrian dengan perbelanjaannya sendiri, mengikut cara yang ditentukan oleh Ketua Pengarah dalam arahan itu.

Pemantauan pembuangan efluen perindustrian atau efluen bercampur

7. (1) Seseorang pemunya atau penghuni premis yang membuang efluen perindustrian atau efluen bercampur ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia hendaklah, dengan perbelanjaan sendiri—

(a) memantau kepekatan keperluan oksigen kimia (COD) dan mana-mana parameter sebagaimana yang dinyatakan dalam Jadual Kelima; dan

(b) memasang meter kadar-aliran, kelengkapan pensampelan, pemantauan dan perekodan.

(2) Pemunya atau penghuni premis itu hendaklah menyenggara suatu rekod data pemantauan pembuangan efluen perindustrian atau efluen bercampur dalam bentuk sebagaimana yang dinyatakan dalam Jadual Kesepuluh.

(3) Pemunya atau penghuni premis itu hendaklah mengemukakan rekod pertama data pemantauan pembuangan efluen perindustrian atau efluen bercampur kepada Ketua Pengarah dalam masa tiga puluh hari selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini dan rekod yang berikutnya hendaklah dikemukakan dalam masa tiga puluh hari selepas berakhirnya bulan kalendar bagi laporan bulan terdahulu.

(4) Rekod data pemantauan pembuangan efluen perindustrian atau efluen bercampur hendaklah dijadikan tersedia untuk diperiksa oleh mana-mana pegawai diberi kuasa.

Pengendalian sistem pengolahan efluen perindustrian yang baik

8. (1) Seseorang pemunya atau penghuni sesuatu premis hendaklah mengendalikan dan menyenggara sistem pengolahan efluen perindustrian mengikut amalan kejuruteraan yang baik bagi pengolahan efluen perindustrian atau efluen bercampur dan memastikan bahawa semua komponen sistem pengolahan efluen perindustrian dalam keadaan baik.

(2) Dalam peraturan ini, “amalan kejuruteraan yang baik” ertinya cara yang dengannya sistem pengolahan efluen perindustrian dikendalikan yang ciri-ciri pengendalian disenggarakan dalam nilai julat normal yang biasa digunakan bagi pengolahan efluen perindustrian atau efluen bercampur.

Pemantauan prestasi sistem pengolahan efluen

9. (1) Seseorang pemunya atau penghuni sesuatu premis hendaklah—

(a) menjalankan pemantauan prestasi semua komponen sistem pengolahan efluen perindustrian mengikut cara sebagaimana yang dinyatakan dalam Dokumen Panduan Mengenai Pemantauan Prestasi Sistem Pengolahan Efluen Perindustrian yang dikeluarkan oleh Jabatan Alam Sekitar; dan

(b) melengkapkan dirinya dengan menyediakan kemudahan, kelengkapan atau instrumen yang berkenaan bagi maksud menjalankan pemantauan prestasi yang disebut dalam perenggan (a).

(2) Dalam peraturan ini, “pemantauan prestasi” ertinya pemantauan rutin ciri-ciri tertentu bagi menyediakan petunjuk bahawa proses pengolahan adalah berfungsi dan berupaya untuk mengolah efluen perindustrian atau efluen bercampur.

Orang yang berwibawa

10. (1) Pengendalian sistem pengolahan efluen perindustrian hendaklah diawasi oleh orang yang berwibawa.

(2) Orang yang berwibawa ialah mana-mana orang yang telah diperakui oleh Ketua Pengarah bahawa dia sewajarnya layak untuk mengawasi pengendalian sistem pengolahan efluen perindustrian.

(3) Pemunya atau penghuni sesuatu premis hendaklah memastikan bahawa orang yang berwibawa bertugas pada bila-bila masa sistem pengolahan efluen perindustrian sedang beroperasi.

Syarat-syarat yang boleh diterima bagi pembuangan efluen perindustrian selain parameter keperluan oksigen kimia (COD)

11. (1) Tiada seorang pun boleh membuang efluen perindustrian yang mengandungi mana-mana parameter yang mempunyai kepekatan melebihi had—

(a) Standard A, sebagaimana yang ditunjukkan dalam ruang ketiga Jadual Kelima, ke dalam mana-mana perairan pedalaman dalam kawasan tadahan sebagaimana yang dinyatakan dalam Jadual Keenam; atau

(b) Standard B, sebagaimana yang ditunjukkan dalam ruang keempat Jadual Kelima, ke dalam mana-mana perairan pedalaman yang lain atau perairan Malaysia.

(2) Jika dua atau lebih logam yang dinyatakan sebagai parameter (xii) hingga (xvi) sebagaimana yang dinyatakan dalam Jadual Kelima, menurut subperaturan (1), terdapat dalam efluen perindustrian atau efluen bercampur, kepekatan logam tersebut tidak boleh lebih tinggi daripada—

(a) 0.5 milligram setiap liter semuanya, jika Standard A terpakai; atau

(b) 3.0 milligram setiap liter semuanya, dan 1.0 milligram setiap liter semuanya dalam bentuk terlarut, jika Standard B terpakai.

(3) Jika Standard B terpakai dan kedua-dua fenol dan klorin bebas terdapat dalam efluen perindustrian yang sama, kepekatan fenol itu sendiri, tidak boleh lebih tinggi daripada 0.2 milligram setiap liter dan kepekatan klorin bebas itu sendiri, tidak boleh lebih tinggi daripada 1.0 milligram setiap liter.

Syarat-syarat yang boleh diterima bagi pembuangan efluen perindustrian bagi parameter keperluan oksigen kimia (COD)

12. Berhubung dengan mana-mana perdagangan atau industri sebagaimana yang dinyatakan dalam Jadual Ketujuh, tiada seorang pun boleh membuang efluen perindustrian yang mengandungi COD dengan kepekatan melebihi had—

(a) Standard A, sebagaimana yang ditunjukkan dalam ruang ketiga Jadual Ketujuh, ke dalam mana-mana perairan pedalaman dalam kawasan tadahan sebagaimana yang dinyatakan dalam Jadual Keenam; atau

- (b) Standard B, sebagaimana yang ditunjukkan dalam ruang keempat Jadual Ketujuh, ke dalam mana-mana perairan pedalaman yang lain atau perairan Malaysia.

Syarat-syarat yang boleh diterima bagi pembuangan efluen bercampur bagi parameter keperluan oksigen kimia (COD)

13. Tiada seorang pun boleh membuang efluen bercampur yang mengandungi COD yang mempunyai kepekatan melebihi had—

- (a) Standard A, sebagaimana yang ditunjukkan dalam ruang kedua Jadual Kelapan, ke dalam mana-mana perairan pedalaman dalam kawasan tadahan sebagaimana yang ditetapkan dalam Jadual Keenam; atau
- (b) Standard B, sebagaimana yang ditunjukkan dalam ruang ketiga Jadual Kelapan, ke dalam mana-mana perairan pedalaman yang lain atau perairan Malaysia.

Amalan pengurusan terbaik bagi pembuangan efluen perindustrian atau efluen bercampur bagi parameter lain

14. Seseorang pemunya atau penghuni sesuatu premis hendaklah menerima pakai amalan pengurusan terbaik bagi pembuangan apa-apa efluen perindustrian atau efluen bercampur bagi mana-mana parameter sebagaimana yang dinyatakan dalam Jadual Kesembilan.

Lesen untuk melanggar syarat-syarat yang boleh diterima bagi pembuangan efluen perindustrian atau efluen bercampur

15. (1) Mana-mana orang boleh memohon bagi suatu lesen di bawah subseksyen 25(1) Akta untuk melanggar syarat-syarat yang boleh diterima bagi pembuangan efluen perindustrian atau efluen bercampur sebagaimana yang dinyatakan dalam peraturan 11, 12 dan 13.

(2) Permohonan bagi suatu lesen hendaklah dibuat mengikut tatacara sebagaimana yang dinyatakan dalam Peraturan-Peraturan Kualiti Alam Sekeliling (Pelesenan) 1977 [P.U. (A) 198/1977] dan hendaklah disertakan dengan—

- (a) laporan mengenai kajian penyifatan efluen perindustrian dalam bentuk sebagaimana yang ditetapkan dalam Dokumen Panduan Mengenai Kajian Penyifatan Efluen Perindustrian yang dikeluarkan oleh Jabatan Alam Sekitar; dan
- (b) fi lesen dan fi lesen berkaitan dengan efluen sebagaimana yang dinyatakan dalam peraturan 31.

Kaedah penganalisan dan pensampelan efluen perindustrian atau efluen bercampur

16. (1) Seseorang pegawai diberi kuasa boleh menjalankan analisis efluen perindustrian atau efluen bercampur *in-situ* atau *ex-situ* menggunakan mana-mana instrumen yang diluluskan oleh Ketua Pengarah.

(2) Analisis mana-mana efluen perindustrian atau efluen bercampur yang dibuang atau dilepaskan ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia hendaklah dijalankan mengikut kaedah yang terkandung dalam penyiaran sebagaimana yang dinyatakan dalam Jadual Keempat.

(3) Analisis efluen perindustrian atau efluen bercampur yang disebut dalam subperaturan (1) hendaklah berasaskan sampel cekau.

(4) Dalam peraturan ini—

(a) “analisis *ex-situ*” ertinya analisis yang dijalankan ke atas sampel efluen perindustrian atau efluen bercampur yang telah dikeluarkan dari lokasinya dan dijalankan di tapak lain daripada tapak di mana sampel itu diambil;

(b) “analisis *in-situ*” ertinya analisis yang dijalankan ke atas sampel efluen perindustrian atau efluen bercampur yang belum dikeluarkan dari lokasinya atau dijalankan di tapak di mana sampel itu diambil; dan

(c) “sampel cekau” ertinya sampel individu diskret yang diambil dalam tempoh masa kurang daripada lima belas minit.

Petunjuk pembuangan efluen perindustrian atau efluen bercampur

17. (1) Petunjuk pembuangan efluen perindustrian atau efluen bercampur hendaklah mematuhi spesifikasi sebagaimana yang dinyatakan dalam Jadual Kesebelas dan hendaklah ditunjukkan dengan jelas oleh pemunya atau penghuni sesuatu premis di atas pelan susun atur atau lukisan kejuruteraan yang diprakerui oleh jurutera profesional.

(2) Pemunya atau penghuni sesuatu premis hendaklah mengemukakan kepada Ketua Pengarah pelan susun atur atau lukisan kejuruteraan sebagaimana yang disebut dalam subperaturan (1) tiga puluh hari sebelum premis itu memulakan operasi.

(3) Jika pemunya atau penghuni premis mencadangkan untuk membuat apa-apa pengubahan atau perubahan kepada lokasi atau kedudukan petunjuk pembuangan atau reka bentuk saluran keluar di petunjuk pembuangan efluen perindustrian atau efluen bercampur, dia hendaklah memaklumkan Ketua Pengarah dalam masa tiga puluh hari sebelum membuat apa-apa pengubahan atau perubahan itu.

Larangan terhadap pembuangan efluen perindustrian atau efluen bercampur melalui pintasan

18. (1) Tiada seorang pun boleh membuang atau menyebabkan atau membenarkan mana-mana efluen perindustrian atau efluen bercampur dibuang ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia melalui pintasan.

(2) Dalam peraturan ini, “pintasan” ertinya apa-apa lencongan pembuangan efluen perindustrian atau efluen bercampur daripada mana-mana bahagian sistem pengolahan efluen perindustrian.

Pencairan efluen perindustrian atau efluen bercampur

19. (1) Tiada seorang pun boleh mencair, atau menyebabkan atau membenarkan mana-mana efluen perindustrian atau efluen bercampur dicairkan, sama ada mentah atau terolah pada bila-bila masa atau ketika selepas ia dihasilkan di mana-mana premis.

(2) Efluen perindustrian atau efluen bercampur menjadi cair apabila ia menjalani proses untuk menjadikannya kurang pekat dengan menambah air atau cecair lain daripada punca luar selain cecair atau bahan yang digunakan untuk mengolah efluen perindustrian atau efluen bercampur itu.

Tumpahan, pembuangan atau kebocoran yang tidak sengaja efluen perindustrian atau efluen bercampur

20. (1) Dalam keadaan terjadi apa-apa tumpahan, pembuangan atau kebocoran yang tidak sengaja apa-apa efluen perindustrian atau efluen bercampur sama ada secara terus atau tidak terus dapat masuk atau mungkin dapat masuk ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia, pemunya atau penghuni premis itu hendaklah dengan segera dan tidak lebih daripada enam jam daripada masa kejadian itu memaklumkan Ketua Pengarah mengenai kejadian itu.

(2) Seseorang pemunya atau penghuni premis itu hendaklah, setakat yang munasabah, membendung, membersihkan atau mengurangkan tumpahan, pembuangan atau kebocoran yang tidak sengaja atau mendapatkan semula efluen perindustrian atau efluen bercampur yang dibuang mengikut cara yang memuaskan hati Ketua Pengarah.

(3) Ketua Pengarah boleh dalam apa-apa kes tertentu, jika dia menganggap perlu untuk berbuat demikian, menetapkan cara tumpahan, pembuangan atau kebocoran yang tidak sengaja dibendung, dibersihkan atau dikurangkan dan pemunya atau penghuni premis itu hendaklah mematuhi spesifikasi itu.

(4) Ketua Pengarah hendaklah menentukan apa-apa kerosakan yang disebabkan oleh tumpahan, pembuangan atau kebocoran yang tidak sengaja dan mendapatkan semula semua kos dan perbelanjaan daripada pemunya atau penghuni premis itu.

(5) Jika Ketua Pengarah mengaku janji untuk membersihkan atau mengurangkan tumpahan, pembuangan atau kebocoran yang tidak sengaja, dia hendaklah menentukan kos dan perbelanjaan penuh yang ditanggung dan boleh mendapatkan semula kos dan perbelanjaan itu daripada pemunya atau penghuni premis itu mengikut peruntukan di bawah seksyen 47 Akta.

Larangan terhadap pembuangan efluen perindustrian atau efluen bercampur yang mengandungi bahan tertentu

21. Tiada seorang pun boleh membuang atau menyebabkan atau membenarkan pembuangan apa-apa efluen perindustrian atau efluen bercampur yang mengandungi apa-apa bahan yang berikut ke atas atau ke dalam mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia:

- (a) apa-apa pelarut yang mudah terbakar;
- (b) apa-apa tar atau cecair lain yang tak terlarut campur dengan air;
- (c) habuk gergaji atau buangan kayu; atau
- (d) enap cemar.

Membuat perubahan yang mengubah kualiti efluen perindustrian atau efluen bercampur

22. (1) Seseorang pemegang lesen tidak boleh membuat, atau menyebabkan atau membenarkan untuk dibuat, apa-apa perubahan kepada premis itu atau dalam cara mengurus, menggunakan, menyenggara atau mengendalikan premis itu atau mana-mana pengendalian atau proses yang dijalankan di premis itu, yang menyebabkan, atau diniatkan atau mungkin menyebabkan, suatu pertambahan material kepada kuantiti atau kualiti efluen perindustrian atau efluen bercampur, atau kedua-duanya dibuang dari premis itu, melainkan jika kebenaran bertulis Ketua Pengarah telah diperoleh terlebih dahulu bagi perubahan itu.

(2) Bagi maksud subperaturan (1), perubahan kepada premis yang dilesenkan termasuk—

- (a) apa-apa perubahan dalam pembinaan, struktur atau susunan premis itu atau mana-mana bangunan yang menjadi sebahagian premis itu;
- (b) apa-apa perubahan dalam pembinaan, struktur, susunan, penjajaran, arah atau keadaan mana-mana peranti penyaluran, sistem atau kemudahan yang menjadi sebahagian premis itu; dan
- (c) apa-apa perubahan mengenai, pada, atau dalam mana-mana loji, mesin atau kelengkapan yang digunakan atau dipasang di premis itu.

Sekatan pembuangan atau pelupusan enap cemar

23. (1) Tiada seorang pun boleh membuang, atau menyebabkan atau membenarkan pembuangan atau pelupusan apa-apa enap cemar yang dihasilkan daripada mana-mana proses pengeluaran atau pembuatan, mana-mana sistem pengolahan efluen perindustrian atau loji rawatan air ke atas atau ke dalam mana-mana tanah, atau permukaan mana-mana tanah, atau ke dalam mana-mana perairan pedalaman atau perairan Malaysia tanpa kebenaran bertulis Ketua Pengarah terlebih dahulu.

(2) Dalam peraturan ini, “loji rawatan air” ertinya apa-apa kemudahan yang digunakan atau dibina untuk perawatan air bagi maksud domestik atau perindustrian.

Melaporkan perubahan dalam maklumat yang diberikan bagi maksud permohonan lesen

24. Seseorang pemohon bagi suatu lesen atau bagi membarui atau memindah milik sesuatu lesen hendaklah, dalam masa tujuh hari daripada berlakunya apa-apa perubahan material dalam apa-apa maklumat yang telah diberikan dalam permohonannya atau yang telah diberikan secara bertulis menurut permintaan oleh Ketua Pengarah di bawah subseksyen 11(2) Akta, memberi Ketua Pengarah suatu laporan secara bertulis mengenai perubahan itu.

Pempameran lesen

25. Pemegang lesen hendaklah mempamerkan lesennya, bersama-sama dengan tiap-tiap dokumen yang menjadi sebahagian daripada lesen itu, di tempat yang mudah dilihat dalam bangunan utama premis itu.

Penerusan syarat-syarat dan sekatan yang sedia ada sekiranya berlaku perubahan dalam penghunian

26. Jika seseorang menjadi penghuni premis berlesen bagi menggantikan orang lain yang memegang lesen yang belum habis tempohnya berkenaan dengan premis itu, maka—

- (a) bagi tempoh empat belas hari selepas perubahan penghunian itu; atau
- (b) jika penghuni baru itu memohon dalam tempoh yang dinyatakan dalam perenggan (a) untuk memindah milik lesen itu kepadanya, bagi tempoh daripada perubahan dalam penghunian sehingga penentuan muktamad dibuat mengenai permohonannya,

syarat-syarat dan sekatan lesen itu adalah mengikat penghuni baru itu dan hendaklah dipatuhi olehnya, tanpa mengira dia masih belum menjadi pemegang lesen atau lesen itu mungkin, dalam tempoh sebagaimana yang dinyatakan dalam perenggan (a) atau (b), mengikut mana-mana yang berkenaan, telah habis tempohnya.

Penyenggaraan rekod

27. (1) Seseorang pemunya atau penghuni sesuatu premis yang dilengkapi dengan sistem pengolahan efluen perindustrian hendaklah menyenggara rekod proses pembuatan, operasi, penyenggaraan dan pemantauan prestasi sistem pengolahan efluen perindustrian.

(2) Rekod di bawah subperaturan (1) hendaklah dijadikan tersedia untuk pemeriksaan oleh pegawai diberi kuasa.

Latihan kakitangan

28. Seseorang pemunya atau penghuni sesuatu premis—
- (a) hendaklah memastikan bahawa kakitangannya menghadiri latihan mengenai keperluan alam sekitar dan amalan pengurusan terbaik dalam pengendalian dan penyenggaraan sistem pengolahan efluen perindustrian sebelum mereka memulakan kerja;
 - (b) hendaklah memastikan bahawa latihan untuk kakitangannya termasuk latihan semula mengenai pengemaskinian keperluan dan tatacara baru, yang dikaji semula dan yang ada; dan
 - (c) hendaklah menyenggara rekod latihan yang hendaklah termasuk tarikh latihan, nama dan jawatan kakitangan, penyedia latihan dan perihalan ringkas kandungan latihan.

Pemunya atau penghuni hendaklah memberikan bantuan semasa pemeriksaan

29. Seseorang pemunya atau penghuni sesuatu premis hendaklah menyediakan Ketua Pengarah atau mana-mana pegawai diberi kuasa, segala bantuan yang munasabah dan kemudahan yang terdapat di premis itu, termasuklah buruh, kelengkapan, alat dan instrumen yang Ketua Pengarah atau pegawai diberi kuasa yang mungkin menghendakinya bagi maksud pemeriksaan.

Perintah larangan

30. (1) Jika berlaku apa-apa kejadian yang tidak diingini sebagaimana yang disenaraikan di dalam Jadual Kedua Belas, Ketua Pengarah boleh mengeluarkan suatu perintah larangan kepada pemunya atau penghuni premis melarang pengendalian seterusnya loji atau proses perindustrian sama sekali atau secara bersyarat bagi suatu tempoh sebagaimana yang diarahkan oleh Ketua Pengarah atau sehingga langkah-langkah pemulihan sebagaimana yang diarahkan oleh Ketua Pengarah itu telah dipatuhi.

(2) Bagi maksud subperaturan (1), satu salinan perintah larangan Ketua Pengarah hendaklah ditampal di suatu tempat yang mudah dilihat di kawasan sekitar kemudahan yang disebut dalam perintah larangan itu dan tiada seorang pun boleh mengendalikan loji atau proses perindustrian itu berkuat kuasa mulai tarikh perintah larangan itu sehingga perintah larangan ditarik balik.

(3) Jika suatu perintah larangan telah dikeluarkan kepada pemunya atau penghuni mana-mana premis yang melarang pengendalian seterusnya loji atau proses perindustrian, Ketua Pengarah atau mana-mana pegawai diberi kuasa hendaklah menyebabkan loji atau proses perindustrian itu tidak beroperasi mengikut cara sebagaimana yang ditentukan oleh Ketua Pengarah atau mana-mana pegawai diberi kuasa.

Fi lesen

31. (1) Fi bagi sesuatu lesen adalah lima ratus ringgit dan tambahan fi lesen berkaitan efluen yang dihitung mengikut kaedah sebagaimana yang dinyatakan dalam Jadual Ketiga belas.

(2) Fi bagi sesuatu lesen dan fi tambahan lesen berkaitan efluen sebanyak lima ratus ringgit hendaklah disertakan bersama-sama dengan permohonan.

(3) Jika Ketua Pengarah enggan untuk meluluskan permohonan bagi sesuatu lesen dan fi lesen berkaitan efluen, hanya fi lesen berkaitan efluen akan dikembalikan.

(4) Fi bagi pindah milik lesen adalah satu ratus ringgit.

Penalti

32. Mana-mana orang yang melanggar peraturan 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 28, 29 dan 30 melakukan suatu kesalahan dan boleh, apabila disabitkan, didenda tidak melebihi satu ratus ribu ringgit atau dipenjarakan selama suatu tempoh tidak melebihi lima tahun atau kedua-duanya dan denda selanjutnya tidak melebihi satu ribu ringgit sehari bagi tiap-tiap hari kesalahan itu berterusan selepas suatu notis dari Ketua Pengarah menghendaknya memberhentikan perbuatan yang dinyatakan di dalam notis itu telah disampaikan kepadanya.

Peruntukan pembatalan, peralihan dan kecualian

33. (1) Peraturan-Peraturan Kualiti Alam Sekeliling (Kumbahan dan Efluen-Efluen Perindustrian) 1979 [*P. U. (A) 12/1979*], adalah dibatalkan (selepas ini disebut sebagai “Peraturan-Peraturan yang dibatalkan”).

(2) Semua permohonan yang dibuat di bawah Peraturan-Peraturan yang dibatalkan bagi suatu lesen untuk melanggar syarat-syarat yang boleh diterima, pembaharuan atau pindah milik lesen, atau kebenaran bertulis, yang belum selesai sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini hendaklah, selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini, diperlakukan di bawah Peraturan-Peraturan yang dibatalkan dan bagi maksud itu hendaklah dianggap seolah-olah Peraturan-Peraturan ini tidak dibuat.

(3) Semua lesen yang dikeluarkan atau kebenaran bertulis yang diberikan di bawah Peraturan-Peraturan yang dibatalkan hendaklah, selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini, terus kekal dan berkuat kuasa sepenuhnya sehingga lesen itu habis tempoh, dipinda, digantung atau dibatalkan atau kebenaran bertulis itu habis tempoh atau dibatalkan di bawah Peraturan-Peraturan yang dibatalkan dan bagi maksud itu hendaklah dianggap seolah-olah Peraturan-Peraturan ini tidak dibuat.

(4) Peruntukan Peraturan-Peraturan yang dibatalkan yang berhubungan dengan syarat-syarat yang boleh diterima bagi pembuangan efluen hendaklah terus terpakai sehingga tempoh dua belas bulan selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini jika pada tarikh permulaan kuat kuasa Peraturan-Peraturan ini—

- (a) apa-apa kerja pembinaan sistem pengolahan efluen perindustrian belum dimulakan dalam masa dua belas bulan dari tarikh pengeluaran kebenaran bertulis bagi pembinaannya sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini;
- (b) apa-apa kerja ke atas apa-apa pembinaan apa-apa sistem pengolahan efluen perindustrian telah dimulakan tetapi belum siap dibina sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini; atau
- (c) apa-apa kerja ke atas apa-apa pembinaan apa-apa sistem pengolahan efluen perindustrian telah siap dibina tetapi belum berfungsi sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini.

(5) Jika pada tarikh permulaan kuat kuasa Peraturan-Peraturan ini, mana-mana premis yang membuang efluen perindustrian atau efluen bercampur ke dalam mana-mana perairan pedalaman yang tidak dinyatakan sebagai kawasan tadahan di bawah Peraturan-Peraturan yang dibatalkan sebaik sebelum tarikh permulaan kuat kuasa Peraturan-Peraturan ini, peruntukan Peraturan-Peraturan yang dibatalkan yang berhubungan dengan syarat-syarat yang boleh diterima bagi pembuangan efluen hendaklah terus terpakai kepada efluen itu sehingga dua belas bulan selepas tarikh permulaan kuat kuasa Peraturan-Peraturan ini.

(6) Apa-apa prosiding, sama ada sivil atau jenayah, yang dimulakan di bawah Peraturan-Peraturan yang dibatalkan dan belum selesai pada tarikh permulaan kuat kuasa Peraturan-Peraturan ini hendaklah, pada tarikh permulaan kuat kuasa Peraturan-Peraturan ini, diteruskan dan diselesaikan di bawah Peraturan-Peraturan yang dibatalkan dan bagi maksud itu hendaklah dianggap seolah-olah Peraturan-Peraturan ini tidak dibuat.

JADUAL PERTAMA

(Peraturan 3)

SENARAI PREMIS YANG PERATURAN-PERATURAN INI TIDAK TERPAKAI

1. Memproses buah kelapa sawit atau tandan buah kelapa sawit yang baru menjadi minyak kelapa sawit mentah, sama ada sebagai keluaran perantaraan atau siap
2. Memproses getah asli dalam bentuk yang ditentukan dari segi teknik, bentuk susu getah termasuklah yang belum divulcan atau dalam bentuk getah yang diubahsuai dan getah kegunaan khas, getah keping lazim, skim, krep atau sekerap
3. Aktiviti perlombongan
4. Memproses, mengilang, membasuh atau membersihkan mana-mana produk atau apa-apa barang lain yang menghasilkan efluen perindustrian atau efluen bercampur kurang daripada 60 meter padu sehari

5. Memproses, mengilang, membasuh atau membersihkan mana-mana produk atau apa-apa barang lain yang menghasilkan efluen perindustrian atau efluen bercampur yang tidak mengandungi minyak dan gris atau bahan cemar yang disenaraikan sebagai parameter (v) hingga (xv) dalam ruang pertama Jadual Kelima
6. Memproses, mengilang, membasuh atau membersihkan mana-mana produk atau apa-apa barang lain yang jumlah muatan keperluan oksigen biokimia (BOD_5 pada $20^\circ C$) atau pepejal terampai atau kedua-duanya, tidak boleh melebihi 6 kilogram sehari (kepekatan 100 miligram setiap liter)

JADUAL KEDUA

[Subperaturan 4(2)]

PEMBERITAHUAN MENGENAI PUNCA BARU ATAU YANG DIUBAH EFLUEN PERINDUSTRIAN ATAU EFLUEN BERCAMPUR

Sila tanda (\checkmark) dalam kotak yang berkaitan

- | | |
|--|--------------------------|
| (i) Pembinaan baru—Perenggan 4(1)(a) atau (b) | <input type="checkbox"/> |
| (ii) Perubahan kelengkapan atau mesin—Perenggan 4(1)(c) | <input type="checkbox"/> |
| (iii) Peningkatan sistem pengolahan efluen perindustrian—Perenggan 4(1)(d) | <input type="checkbox"/> |

A. PENGENALAN

1.
 - (i) Nama pemunya atau penghuni:.....
 - (ii) Nombor kad pengenalan:
 - (iii) Alamat pemunya atau penghuni:
 - (iv) Nombor telefon:..... Nombor faks:.....

2.
 - (i) Nama syarikat:.....
 - (ii) Nombor pendaftaran syarikat:.....
(Sila lampirkan sijil pendaftaran syarikat)
 - (iii) Alamat syarikat:.....
 - (iv) Nombor telefon :..... Nombor faks:.....

3.
 - (i) Nama premis:.....
 - (ii) Alamat premis:.....
 - (iii) Nombor telefon:.....Nombor faks:.....
 - (iv) Latitud:.....darjah:.....minit:..... saat:.....
Longitud:..... darjah:.....minit:.....saat:.....

B. MAKLUMAT OPERASI

4. Cadangan tarikh permulaan pembinaan premis atau kerja peningkatan:
.....
5. Cadangan tarikh menghuni/menggunakan premis atau tarikh premis telah dihuni/digunakan atau kerja peningkatan disiapkan:.....
6. Jika pemberitahuan adalah mengenai peningkatan kapasiti sistem pengolahan efluen perindustrian, sila nyatakan sebab:
.....
7. Jadual operasi
 - (i) Bilangan syif sehari:.....purata:.....maksimum:.....
 - (ii) Waktu operasi:.....purata:.....maksimum:.....
 - (iii) Bilangan hari beroperasi:.....seminggu:.....sebulan:.....setahun:.....
8. Senarai bahan mentah/kimia*

| <u>Butiran>Nama</u> | <u>Unit kuantiti</u> | <u>Kuantiti sebulan</u> |
|------------------------|----------------------|-------------------------|
| | | |
| | | |

9. Senarai Produk *

| <u>Butiran>Nama</u> | <u>Unit kuantiti</u> | <u>Kuantiti sebulan</u> |
|------------------------|----------------------|-------------------------|
| | | |
| | | |

10. Perihalkan secara terperinci proses pengeluaran dan lampirkan gambar rajah aliran yang berkaitan:
.....
.....

*(sila gunakan lampiran jika perlu)

11. Adakah konsep pengeluaran pencuci dipertimbangkan dalam cadangan? Sila berikan butir-butir:
.....
.....

C. MAKLUMAT MENGENAI PEMBEKALAN DAN PENGGUNAAN AIR

| 12. Penggunaan air | Punca | Purata kuantiti sehari, m ³ |
|---------------------------|-------|--|
| (i) Air minuman | | |
| (ii) Air proses | | |
| (iii) Air bekalan dandang | | |
| (iv) Air penyejuk | | |
| (v) Lain-lain | | |

13. Adakah air dirawat sebelum digunakan? Ya Tidak
(Sila tanda (√) dalam kotak yang berkaitan)

14. Jika ya, sila perihalkan kaedah menguruskan enap cemar yang dihasilkan*:

.....
*(Sila gunakan lampiran jika perlu)

D. MAKLUMAT MENGENAI SISTEM PENGOLAHAN EFLUEN PERINDUSTRIAN DAN PELUPUSAN EFLUEN

15. Kemukakan maklumat yang berikut *:
- (i) Carta aliran proses pengeluaran yang menunjukkan petunjuk efluen perindustrian atau efluen bercampur dihasilkan dan kadar aliran;
 - (ii) (a) Laporan Kajian Penyifatan Efluen Perindustrian (IECS) berdasarkan kepada Panduan Mengenai Kajian Penyifatan Efluen Perindustrian atau maklumat daripada maklumat sekunder; dan
(b) dalam hal pemberitahuan adalah untuk meningkatkan kapasiti sistem pengolahan, laporan IECS hendaklah termasuk penilaian secara menyeluruh penyumbang kepada kegagalan sistem pengolahan sedia ada untuk mematuhi standard pembuangan;
 - (iii) Perihalan mengenai teknologi pengolahan efluen perindustrian yang dicadangkan;
 - (iv) Asas reka bentuk dan perkiraan sistem pengolahan efluen perindustrian yang dicadangkan;
 - (v) Perkiraan dan ringkasan imbalan besar dan gambar rajah blok yang menunjukkan kecekapan operasi unit dan proses unit bagi setiap parameter yang terolah;
 - (vi) Lukisan kejuruteraan sistem pengolahan yang terperinci (susun atur, keratan rentas, pandangan atas dan pandangan sisi) termasuk gambar rajah proses dan instrumentasi (P&I) dan susun atur sistem perparitan yang diperakui oleh jurutera profesional sebaik-baiknya dalam disiplin Kejuruteraan Alam Sekitar, Kejuruteraan Kimia atau Kejuruteraan Awam dengan pengalaman dalam mengolah efluen perindustrian atau efluen bercampur;
 - (vii) #Pelan susun atur kilang yang menunjukkan petunjuk pembuangan akhir efluen perindustrian atau efluen bercampur yang ditandakan 'X';
 - (viii) Senarai kelengkapan utama sistem pengolahan efluen perindustrian termasuklah senarai alat ganti atau kelengkapan siap sedia seperti pam, meter pH meter dll. Dokumen atau katalog kelengkapan yang berkaitan hendaklah dikemukakan;
 - (ix) Cadangan langkah-langkah atau pelan untuk memastikan pematuhan secara berterusan termasuklah tempoh yang melibatkan kerja penyenggaraan dengan mengambil kira keperluan di tahap reka bentuk dan operasi;
 - (x) Cadangan jadual pelaksanaan bagi pembinaan sistem pengolahan efluen perindustrian;
 - (xi) Jaminan pelaksanaan bagi sistem pengolahan efluen perindustrian; dan
 - (xii) Surat pelantikan pakar runding/kontraktor daripada premis.
- # (Semua pelan hendaklah dalam saiz A1)

16. Pembuangan efluen perindustrian atau efluen bercampur

- (i) Alur air:

Jenis alur air

Sungai atau anak sungai: Kolam: Tasik:

Laut: Mata air: Telaga:

Nama alur air:.....

Nyatakan jika selain yang di atas*.....

(ii) Kumbahan:

Nama dan alamat Pihak Berkuasa:.....

Nama dan alamat loji pengolahan kumbahan:.....

(iii) Kitar semula atau guna semula:

Peratusan air proses yang dikitar semula:.....

(iv) Lain-lain: nyatakan:

*(Sila gunakan lampiran jika perlu)

17. Cara dan ciri-ciri efluen yang dibuang

(i) Cara efluen perindustrian atau efluen bercampur yang dibuang

(a) Pembuangan berkelompok:

Kekerapan pembuangan: kali sehari
 kali seminggu
 kali sebulan

Kuantiti pembuangan: m3 sehari
 m3 seminggu
 m3 sebulan

Waktu pembuangan:

(b) Pembuangan berterusan:

Kuantiti pembuangan efluen yang berterusan
 Purata kuantiti/kuantiti maksimum
 m3 sejam:...../..... m3 sehari:...../.....
 m3 sebulan:...../.....m3 setahun:..... /.....

(ii) Kualiti efluen yang dibuang:

| Parameter (dalam mg/L, melainkan jika dinyatakan sebaliknya) | Efluen Mentah** | Efluen Terolah |
|--|-----------------|----------------|
| (1) Suhu °C | | |
| (2) Nilai pH | | |
| (3) BOD ₅ pada 20°C | | |
| (4) COD | | |
| (5) Pepejal Terampai | | |

| Parameter (dalam mg/L, melainkan jika dinyatakan sebaliknya) | Efluen Mentah** | Efluen Terolah |
|---|-----------------|----------------|
| (6) Raksa | | |
| (7) Kadmium | | |
| (8) Kromium, Heksavalen | | |
| (9) Arsenik | | |
| (10) Sianida | | |
| (11) Plumbum | | |
| (12) Kromium, Trivalen | | |
| (13) Tembaga | | |
| (14) Mangan | | |
| (15) Nikel | | |
| (16) Timah | | |
| (17) Zink | | |
| (18) Boron | | |
| (19) Besi | | |
| (20) Fenol | | |
| (21) Aluminium | | |
| (22) Barium | | |
| (23) Minyak dan Gris | | |
| (24) Kobalt | | |
| (25) Perak | | |
| (26) Fluorida (sebagai F) | | |
| (27) Formaldehid | | |
| (28) Molibdenum | | |
| (29) Klorida | | |
| (30) Klorin (Bebas) | | |
| (31) Selenium | | |
| (32) Sulfida | | |
| (33) Sulfat | | |
| (34) Warna | | |
| (35) Nitrogen Ammonia | | |
| (36) Nitrogen Nitrat | | |
| (37) Fosfat (sebagai P) | | |
| (38) Bahan Cuci, Anionik | | |
| (39) Berilium | | |
| (40) Vanadium | | |
| (41) Bifenil Poliklorin | | |
| (42) Racun makhluk perusak, racun kulat, racun herba, racun serangga, racun binatang mengerip, gas beracun atau mana-mana biosid atau apa-apa hidrokarbon berklorin yang lain | | |

- (43) Apa-apa bahan sama ada bersendirian atau bergabung atau bertindak balas dengan sisa lain yang boleh mengakibatkan apa-apa gas, asap atau bau atau bahan yang menyebabkan atau mungkin menyebabkan pencemaran

.....

** Maklumat diperoleh daripada Laporan Penyifatan Efluen Perindustrian (IECS) sebagaimana dalam butiran 15(ii).

- 18. Nyatakan sama ada apa-apa pelarut, tar atau cecair lain yang tak terlarut campur dengan air digunakan atau dihasilkan dalam proses pengeluaran itu:

.....

E. PENGELUARAN DAN PELUPUSAN ENAP CEMAR

- 19. Enap cemar yang dihasilkan daripada pengeluaran dan unit operasi dan unit proses sistem pengolahan efluen perindustrian:

| Jenis enap cemar (kimia/biologi) | Punca | Purata kuantiti tan metrik setiap hari |
|-------------------------------------|-------|---|
| | | |
| | | |

- 20. Perihalkan cadangan kaedah penyimpanan/pelupusan enap cemar:

.....
.....

F. PROGRAM PEMANTAUAN PRESTASI BAGI SISTEM PENGOLAHAN EFLUEN PERINDUSTRIAN

- 21. Perihalkan dengan menggunakan lampiran tambahan cadangan terperinci mengenai program pemantauan prestasi bagi setiap unit proses dan unit operasi utama termasuklah maklumat mengenai kelengkapan, orang yang berwibawa, kekerapan, lokasi, parameter, nilai julat biasa bagi parameter operasi dan kaedah pelaksanaannya.

G. AKUAN

Saya,.....***pemunya atau penghuni, atau ejen yang diberi kuasa pemunya atau penghuni dengan ini mengaku bahawa semua maklumat yang diberikan dalam borang ini adalah benar dan betul sepanjang pengetahuan dan kepercayaan saya.

Tarikh:..... Tandatangan pemunya atau penghuni atau ejen yang diberi kuasa ***.....

Nombor telefon:..... Nama penuh:.....
Nombor kad pengenalan:.....

Nombor faks:..... Jawatan:.....

Meterai atau cap rasmi syarikat:.....

*** Potong mana-mana yang tidak berkenaan.

JADUAL KETIGA
[Subperaturan 5(3)]

AKUAN BERTULIS MENGENAI REKA BENTUK DAN
PEMBINAAN SISTEM PENGOLAHAN EFLUEN PERINDUSTRIAN

Nama premis:.....

Alamat premis:.....

Nombor fail Jabatan Alam Sekitar (jika berkenaan):.....

Nombor telefon:..... Nombor faks.:.....

Kami, yang bertandatangan di bawah mengaku bahawa sistem pengolahan efluen perindustrian telah direka bentuk dan dibina dengan benar-benar mematuhi keperluan dan spesifikasi minimum sebagaimana yang dinyatakan dalam Dokumen Panduan Mengenai Reka Bentuk Dan Operasi Sistem Pengolahan Efluen Perindustrian yang dikeluarkan oleh Jabatan Alam Sekitar.

.....
(Tandatangan pemunya atau penghuni premis) (Tandatangan Jurutera yang bertanggungjawab bagi mereka bentuk proses pengolahan)

Tarikh:.....

Tarikh:.....

Nombor kad pengenalan:

Nombor kad pengenalan:.....

*Disiplin: kimia/alam sekitar/lain-lain

(sila nyatakan):.....

Nombor pendaftaran L.J.M.:.....

.....
(Tandatangan Jurutera bertanggungjawab bagi mereka bentuk struktur)

.....
(Tandatangan Jurutera bertanggungjawab bagi mereka bentuk komponen mekanik)

Tarikh:.....

Tarikh:.....

Nombor kad pengenalan:

Nombor kad pengenalan:.....

Disiplin: Awam

Disiplin: Mekanik

Nombor pendaftaran L.J.M.:.....

Nombor pendaftaran L.J.M.:.....

.....
(Tandatangan Jurutera bertanggungjawab bagi mereka bentuk komponen elektrik dan elektronik)

Tarikh:.....

Disiplin: Elektrik

Nombor pendaftaran L.J.M.:.....

Nota: L.J.M. adalah singkatan bagi Lembaga Jurutera, Malaysia

*Potong mana-mana yang tidak berkenaan.

JADUAL KEEMPAT
[Subperaturan 16(2)]

KAEDAH-KAEDAH BAGI PENGANALISISAN
EFLUEN PERINDUSTRIAN ATAU EFLUEN BERCAMPUR

1. Edisi ke-21 "*Standard Methods for the Examination of Water and Wastewater*" yang diterbitkan bersama oleh *American Public Health Association, the American Water Works Association* dan *the Water Environment Federation of the United States of America*; atau
2. "*Code of Federal Regulations, Title 40, Chapter 1, Subchapter D, part 136*" yang diterbitkan oleh *Office of the Federal Register, National Archives and Records Administration, United States of America*

JADUAL KELIMA
[Perenggan 11(1)(a)]

SYARAT-SYARAT YANG BOLEH DITERIMA BAGI PEMBUANGAN EFLUEN
PERINDUSTRIAN ATAU EFLUEN BERCAMPUR BAGI STANDARD A DAN B

| Parameter | Unit | Standard | |
|----------------------------------|-------|----------|---------|
| | | A | B |
| (1) | (2) | (3) | (4) |
| (i) Suhu | °C | 40 | 40 |
| (ii) Nilai pH | – | 6.0-9.0 | 5.5-9.0 |
| (iii) BOD ₅ pada 20°C | mg/L | 20 | 50 |
| (iv) Pepejal Terampai | mg/L | 50 | 100 |
| (v) Raksa | mg/L | 0.005 | 0.05 |
| (vi) Kadmium | mg/L | 0.01 | 0.02 |
| (vii) Kromium, Heksavalen | mg/L | 0.05 | 0.05 |
| (viii) Kromium, Trivalen | mg/L | 0.20 | 1.0 |
| (ix) Arsenik | mg/L | 0.05 | 0.10 |
| (x) Sianida | mg/L | 0.05 | 0.10 |
| (xi) Plumbum | mg/L | 0.10 | 0.5 |
| (xii) Tembaga | mg/L | 0.20 | 1.0 |
| (xiii) Mangan | mg/L | 0.20 | 1.0 |
| (xiv) Nikel | mg/L | 0.20 | 1.0 |
| (xv) Timah | mg/L | 0.20 | 1.0 |
| (xvi) Zink | mg/L | 2.0 | 2.0 |
| (xvii) Boron | mg/L | 1.0 | 4.0 |
| (xviii) Besi (Fe) | mg/L | 1.0 | 5.0 |
| (xix) Perak | mg/L | 0.1 | 1.0 |
| (xx) Aluminium | mg/L | 10.0 | 15.0 |
| (xxi) Selenium | mg/L | 0.02 | 0.5 |
| (xxii) Barium | mg/L | 1.0 | 2.0 |
| (xxiii) Fluorida | mg/L | 2.0 | 5.0 |
| (xxiv) Formaldehid | mg/L | 1.0 | 2.0 |
| (xxv) Fenol | mg/L | 0.001 | 1.0 |
| (xxvi) Klorin Bebas | mg/L | 1.0 | 2.0 |
| (xxvii) Sulfida | mg/L | 0.50 | 0.50 |
| (xxviii) Minyak dan Geris | mg/L | 1.0 | 10.0 |
| (xxix) Nitrogen Ammonia | mg/L | 10 | 20 |
| (xxx) Warna | ADMI* | 100 | 200 |

*ADMI- *American Dye Manufacturers Institute*

JADUAL KEENAM
[Perenggan 11(1)(a), Peraturan 12 dan 13]

SENARAI KAWASAN TADAHAN YANG STANDARD A TERPAKAI

1. Kawasan tadahan yang disebut dalam Peraturan-Peraturan ini adalah kawasan di permukaan hulu sungai atau di atas permukaan bawah petunjuk pengambilan pembekalan air, bagi maksud kegunaan manusia termasuk air minuman.
2. Bagi maksud Peraturan-Peraturan ini, petunjuk pengambilan pembekalan air hendaklah termasuk petunjuk pengambilan pembekalan air awam yang ditentukan di bawah:

(1) Negeri Johor

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 102° 40' 12" | 2° 39' 29" | Sg. Muar | Segamat |
| 102° 55' 37" | 2° 32' 57" | Sg. Segamat | Segamat |
| 102° 03' 10" | 2° 28' 02" | Sg. Jauseh | Segamat |
| 102° 03' 10" | 2° 28' 02" | Sg. Jauseh | Segamat |
| 102° 39' 57" | 2° 25' 29" | Sg. Jementah | Segamat |
| 102° 49' 55" | 2° 21' 01" | Sg. Muar | Muar |
| 102° 47' 11" | 2° 18' 11" | Sg. Muar | Muar |
| 102° 48' 40" | 2° 14' 59" | Sg. Muar | Muar |
| 102° 44' 58" | 2° 12' 04" | Sg. Muar | Muar |
| 102° 44' 03" | 2° 10' 49" | Sg. Muar | Muar |
| 103° 05' 03" | 1° 53' 09" | Sg. Sembrong/ Sg. Bekok Transf | Batu Pahat |
| 103° 32' 24" | 2° 12' 03" | Sg. Kahang | Kluang |
| 103° 26' 55" | 2° 05' 27" | Sg. Kahang | Kluang |
| 103° 40' 14" | 2° 35' 15" | Labong Dam | Mersing |
| 103° 47' 31" | 2° 30' 22" | Congkok Dam | Mersing |
| 103° 39' 22" | 2° 23' 13" | Sg. Lenggong | Mersing |
| 103° 54' 07" | 2° 02' 11" | Sg. Sedili Besar | Mersing |
| 103° 51' 16" | 2° 16' 27" | Bekas Lombong | Mersing |
| 104° 02' 52" | 1° 53' 38" | Sg. Gembut | Kota Tinggi |
| 103° 49' 50" | 1° 49' 52" | Sg. Pelepah | Kota Tinggi |
| 103° 43' 19" | 1° 48' 01" | Sg. Linggiu | Kota Tinggi |
| 103° 40' 05" | 1° 48' 14" | Sg. Sayong | Kota Tinggi |
| 103° 40' 05" | 1° 48' 14" | Sg. Sayong | Kota Tinggi |
| 103° 35' 28" | 1° 51' 28" | Sg. Peggeli | Kota Tinggi |
| 104° 08' 08" | 1° 44' 39" | Sg. Sedili Kecil | Kota Tinggi |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 104° 12' 13" | 1° 32' 30" | Lebam Dam | Kota Tinggi |
| 103° 46' 58" | 1° 44' 47" | Sg. Johor | Kota Tinggi |
| 103° 27' 09" | 1° 43' 12" | Sg. Pontian Besar | Johor Bahru |
| 103° 54' 43" | 1° 33' 22" | Layang Dam | Johor Bahru |
| 103° 50' 14" | 1° 44' 07" | Sg. Johor | Johor Bahru |
| 103° 21' 54" | 2° 03' 35" | Sg. Sembrong | Kluang |
| 103° 11' 01" | 1° 58' 23" | Sembrong Dam | Kluang |
| 103° 17' 47" | 1° 49' 33" | Sg. Benut | Kluang |
| 103° 03' 10" | 2° 00' 57" | Sg. Bekok Transf | Batu Pahat |
| 104° 03' 12" | 2° 00' 54" | Sg. Bekok Transf | Batu Pahat |
| 103° 05' 57" | 1° 52' 33" | Sg. Sembrong | Batu Pahat |
| 102° 44' 03" | 2° 10' 49" | Sg. Muar | Muar |
| 102° 44' 05" | 2° 10' 48" | Sg. Muar | Muar |
| 102° 44' 05" | 2° 10' 48" | Sg. Muar | Muar |
| 102° 34' 56" | 2° 19' 37" | Ledang Dam | Muar |
| 102° 50' 09" | 2° 31' 07" | Sg. Segamat | Segamat |
| 102° 50' 17" | 2° 31' 12" | Sg. Segamat | Segamat |
| 102° 49' 59" | 2° 30' 55" | Sg. Segamat | Segamat |
| 103° 03' 11" | 2° 28' 01" | Sg. Jauseh | Segamat |
| 103° 52' 24" | 1° 44' 42" | Sg. Johor | PUB Singapura |
| 103° 39' 40" | 1° 33' 30" | Sg. Skudai | PUB Singapura |
| 103° 34' 14" | 1° 32' 30" | Pulai Dam | PUB Singapura |
| 103° 44' 24" | 1° 33' 00" | Sg. Tebrau | PUB Singapura |

(2) Negeri Pahang

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 102° 27' 00" | 3° 41' 00" | Sg. Pahang | Batu Sawar |
| 102° 37' 00" | 3° 26' 00" | Sg. Pahang | Bukit Kertau |
| 102° 36' 00" | 3° 30' 00" | Sg. Pahang | Chenor |
| 102° 39' 00" | 3° 44' 45" | Sg. Jempol | Ulu Jempol |
| 102° 40' 00" | 3° 41' 00" | Sg. Jempol | Jengka 3-7 |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 102° 51' 00" | 3° 38' 00" | Sg. Liut | Kg. New Zealand |
| 102° 39' 00" | 3° 40' 00" | Sg. Jempol | Simpang Jengka |
| 102° 40' 00" | 3° 47' 00" | Sg. Jerik | Rumah Pam Sg. Jerik |
| 102° 56' 00" | 3° 20' 00" | Sg. Mentiga | Cini |
| 192° 59' 00" | 2° 56' 00" | Sg. Keratung | Paluh Rumbek |
| 102° 32' 48" | 3° 07' 63" | Sg. Aur | Aur |
| 102° 51' 27" | 2° 50' 51" | Sg. Keratung | Keratung |
| 103° 23' 00" | 3° 30' 15" | Sg. Pahang | Kg. Mengkasar |
| 103° 10' 00" | 3° 33' 00" | Sg. Pahang | Lepar/Pulau Manis |
| 103° 26' 00" | 3° 08' 00" | Ground Water | Nenasi |
| 103° 23' 30" | 3° 30' 54" | Sg. Pahang | Peramu |
| 103° 19' 00" | 3° 35' 00" | Sg. Pahang | Sekor |
| 101° 53' 00" | 3° 41' 00" | Sg. Bilut | Bilut |
| 101° 45' 00" | 3° 44' 00" | Sg. Hijau | Rumah Pam Bukit Fraser |
| 101° 49' 00" | 3° 56' 00" | Sg. Cheroh | Cheroh |
| 101° 58' 00" | 3° 55' 00" | Sg. Keloi | Dong |
| 101° 49' 00" | 4° 19' 00" | Sg. Jelai | Rumah Pam Kuala Medang |
| 102° 01' 00" | 3° 42' 00" | Sg. Pertang | Lembah Klau |
| 101° 51' 30" | 3° 45' 24" | Sg. Bilut | Raub |
| 101° 59' 00" | 3° 44' 30" | Sg. Chalit | Rumah Pam Sg. Chalit |
| 102° 00' 00" | 3° 46' 00" | Sg. Kelau | Sg. Klau |
| 101° 48' 30" | 3° 44' 00" | Sg. Teras | Teras |
| 101° 47' 45" | 4° 12' 30" | Sg. Koyan | Rumah Pam Sg. Koyan |
| 103° 29' 36" | 3° 48' 24" | Ground Water | Rompin |
| 103° 26' 35" | 2° 37' 15" | Empangan Sg. Anak Endau | Loji Air Seladang |
| 102° 10' 30" | 3° 31' 00" | Sg. Semantan | Bukit Damar |
| 102° 18' 00" | 3° 18' 00" | Sg. Teriang | Bukit Mendi |
| 102° 30' 00" | 2° 18' 00" | Sg. Bera | Bera |
| 102° 33' 00" | 3° 24' 00" | Sg. Pahang | Charuk Puting |
| 102° 22' 00" | 2° 45' 00" | Sg. Kerau | Jenderak Utara |
| 102° 26' 00" | 2° 30' 00" | Sg. Pahang | Lubuk Kawah |
| 102° 23' 00" | 3° 31' 00" | Sg. Semantan | Mentakab |
| 101° 24' 30" | 3° 14' 30" | Sg. Teriang | Triang (Baru) |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 101° 55' 00" | 3° 29' 00" | Sg. Benus | Bt. 4, Jln. KL/ Bentong |
| 101° 53' 00" | 3° 20' 00" | Sg. Benus | Janda Baik |
| 102° 03' 00" | 3° 26' 00" | Sg. Temelong | Karak |
| 101° 53' 00" | 3° 41' 00" | Sg. Bilut | Lurah Bilut |
| 102° 07' 10" | 3° 15' 20" | Sg. Gapoi | Sg. Gapoi |
| 101° 54' 00" | 3° 39' 00" | Sg. Penjuring | Sg. Penjuring |
| 102° 00' 30" | 3° 33' 00" | Sg. Kelau | Sg. Sertik |
| 101° 23' 30" | 4° 31' 20" | Sg. Bertam | Brinchang |
| 101° 25' 00" | 4° 34' 00" | Sg. Perlong | Kuala Terla |
| 101° 21' 00" | 4° 27' 00" | Sg. Jasin | Lubok Tamang |
| 101° 24' 10" | 4° 24' 35" | Sg. Bertam | Takong Empangan Bertam Valley |
| 101° 23' 50" | 4° 26' 20" | Sg. Luchut | Takong Empangan Habu |
| 101° 24' 20" | 3° 34' 40" | Sg. Ikan | Takong Empangan Kg. Raja |
| 101° 21' 40" | 4° 24' 20" | Sg. Ringlet | Takong Empangan Ringlet |
| 101° 25' 3" | 4° 30' 02" | Sg. Triangkap | Takong Empangan Tringkap |
| 102° 11' 00" | 4° 00' 00" | Sg. Cheka | Batu Balai |
| 102° 21' 42" | 3° 57' 30" | Sg. Pahang | Batu Embun |
| 102° 28' 00" | 3° 53' 00" | Sg. Tekam | Jengka 8-15 |
| 102° 19' 00" | 4° 03' 00" | Sg. Retang | Padang Piol |
| 102° 31' 48" | 3° 52' 00" | Sg. Tekam | Sg. Tekam |
| 102° 33' 42" | 3° 50' 00" | Sg. Tekam | Sg. Tekam Utara |
| 102° 16' 00" | 4° 05' 00" | Sg. Jelai | Mela |
| 102° 11' 00" | 4° 12' 00" | Sg. Jelai | Bt. 9 Halt |
| 101° 58' 00" | 4° 02' 00" | Sg. Lipis | Benta |
| 101° 59' 00" | 4° 14' 25" | Sg. Jelai | Bukit Betong |
| 102° 02' 10" | 4° 10' 20" | Sg. Lipis | Kuala Lipis |
| 102° 01' 00" | 4° 38' 00" | Sg. Merapoh | Rumah Pam Merapoh |
| 102° 06' 00" | 4° 19' 00" | Sg. Temau | Rumah Pam Sg. Temau |
| 103° 22' 00" | 3° 51' 00" | Sg. Jabor | Rumah Pam Alor Batu |
| 103° 21' 00" | 4° 01' 00" | Sg. Ular | Baru Sg. Ular |
| 103° 12' 00" | 3° 53' 00" | Sg. Riau | Bukit Goh |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 103° 15' 34" | 3° 49' 42" | Sg. Kuantan | Bukit Ubi/ Kg. Kobat |
| 103° 15' 00" | 3° 15' 00" | Sg. Kuantan | Kg. Padang |
| 103° 6' 00" | 3° 33' 00" | Sg. Lepar | Lepar Hilir |
| 103° 12' 00" | 3° 53' 00" | Sg. Kuantan | Pasir Kemudi |
| 103° 13' 00" | 3° 53' 00" | Sg. Berkelah | Paya Bungor |
| 103° 21' 00" | 3° 50' 00" | Sg. Kuantan | Semambu |
| 103° 02' 00" | 3° 56' 0" | Sg. Kuantan | Sg. Lembing |

(3) Negeri Kelantan

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 102° 14' 40" | 6° 06' 50" | Kg. Puteh Wellfield | Kampong Puteh |
| 102° 16' 40" | 6° 05' 20" | Kubang Kerian Wellfield | Kubang Kerian |
| 102° 17' 40" | 6° 09' 40" | Pengkalan Chepa Wellfield | Pengkalan Chepa |
| 102° 14' 15" | 6° 05' 50" | Pintu Geng Wellfield | Pintu Geng |
| 102° 16' 15" | 6° 08' 30" | Tg. Mas Wellfield | Tanjung Mas |
| 102° 16' 44" | 6° 05' 18" | Kubang Kerian Wellfield | Chicha |
| 102° 15' 57" | 6° 03' 53" | Kg. Seribong Wellfield | Chicha |
| 102° 15' 03" | 6° 04' 41" | Kg. Chicha Wellfield | Chicha |
| 102° 15' 38" | 6° 05' 12" | Kg. Pasir Hor Wellfield | Chicha |
| 102° 16' 48" | 6° 04' 01" | Kg. Pasir Tumboh Wellfield | Chicha |
| 102° 15' 44" | 6° 04' 29" | Kg. Padang Penyadat Wellfield | Chicha |
| 102° 17' 08" | 6° 05' 38" | Kg. Kenali Wellfield | Chicha |
| 102° 05' 20" | 6° 12' 30" | Wakaf Bharu Wellfield | Wakaf Bharu |
| 102° 10' 20" | 6° 10' 00" | Wakaf Bharu Wellfield | Wakaf Bharu |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|--------------------------------|----------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 102° 11' 50" | 6° 07' 00" | Kg. Sedar Wellfield | Kg. Sedar |
| 102° 09' 23" | 6° 02' 50" | Sg. Kelantan | Kelar |
| 101° 58' 00" | 6° 01' 10" | Rantau Panjang Wellfield | Rantau Panjang |
| 102° 08' 31" | 6° 02' 15" | Sg. Kelantan | Lemal |
| 102° 20' 40" | 6° 02' 30" | Kg. Chap Wellfield | Kg. Chap |
| 102° 23' 10" | 5° 00' 50" | Kg. Chap Wellfield | Kg. Chap |
| 102° 24' 00" | 6° 02' 50" | Jelawat Wellfield | Jelawat |
| 102° 24' 50" | 5° 49' 45" | Sg. Rasau | Wakaf Bunut |
| 102° 13' 08" | 5° 31' 17" | Sg. Kelantan | Tualang |
| 102° 13' 40" | 5° 28' 20" | Sg. Lebir | Pahi |
| 102° 12' 20" | 5° 29' 30" | Sg. Lebir | Manik Urai |
| 102° 08' 40" | 5° 41' 50" | Sg. Kelantan | Kg. Bandar Kemubu |
| 102° 05' 45" | 5° 55' 50" | Sg. Muring | Kemahang |
| 102° 09' 20" | 5° 47' 20" | Sg. Kelantan | Bukit Remah |
| 102° 05' 45" | 5° 55' 50" | Sg. Jegor | Bendang Nyior |
| 101° 58' 30" | 5° 50' 00" | Sg. Jedok | Batu Gajah |
| 102° 05' 30" | 5° 41' 00" | Sg. Kerila | Kuala Tiga |
| 101° 53' 25" | 5° 46' 40" | Sg. Lanas | Air Lanas |
| 101° 50' 30" | 5° 42' 00" | Sg. Pergau | Jeli |
| 101° 50' 10" | 5° 29' 20" | Sg. Terang | Kuala Balah |
| 102° 00' 00" | 5° 18' 20" | Sg. Stong | Stong |
| 102° 04' 14" | 5° 04' 50" | Sg. Galas | Limau Kasturi |
| 102° 18' 29" | 4° 57' 40" | Sg. Lebir | Aring |
| 102° 02' 39" | 5° 08' 50" | Sg. Nenggiri | Bertam Baru |
| 102° 10' 36" | 4° 53' 56" | Sg. Ciku | Ciku |
| 101° 59' 07" | 4° 50' 35" | Sg. Ketil | Sg. Ketil |
| 101° 47' 25" | 4° 54' 01" | Sg. Betis | Panggung Lalat |

(4) Negeri Perlis

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 100° 09' 14" | 6° 20' 11" | Anak Sungai | Terusan Arau |
| 100° 16' 15" | 6° 25' 15" | Telaga Gerek/ Mada Canal | Arau |
| 100° 19' 00" | 6° 31' 25" | Telaga Gerek | Felda Chuping |
| 100° 12' 00" | 6° 42' 30" | Sungai Rasa | Wang Kelian |
| 100° 12' 00" | 6° 34' 00" | Empangan Timah Tasoh | Timah Tasoh |
| 100° 14' 30" | 6° 33' 15" | Telaga Gerek | Semadong |

(5) Negeri Kedah

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 100° 25' 48.3" | 6° 12' 20.5" | Ter. MADA Utara | Alor Star |
| 100° 27' 34.8" | 6° 13' 11.9" | Sg. Padang Terap | Jitra |
| 100° 36' 56.0" | 6° 14' 48.0" | Kuala Nerang | Kuala Nerang |
| 100° 41' 18.0" | 6° 20' 27.5" | Sg. Ahning | Padang Sanai |
| 100° 45' 10.5" | 6° 03' 16.3" | Sg. Muda | Nami |
| 100° 29' 2.47" | 5° 55' 29.1" | Ter. MADA Selatan | Bukit Jenun |
| 100° 43' 53.8" | 6° 00' 05.8" | Sg. Muda | Lubuk Merbau |
| 100° 26' 6.2" | 6° 23' 48.0" | Sg. Temin | Changloon |
| 100° 38' 43.4" | 5° 54' 26.2" | Sg. Muda | Jeneri |
| 100° 29' 47.3" | 5° 34' 13.8" | Sg. Muda | Pinang Tunggal |
| 100° 29' 59.6" | 5° 34' 13.8" | Sg. Muda | Pinang Tunggal |
| 100° 37' 13.8" | 5° 49' 26.8" | Sg. Muda | Jeniang |
| 100° 26' 28.3" | 5° 46' 04.7" | Gunung Jerai | Tupah |
| 100° 24' 54.1" | 5° 44' 36.6" | Gunung Jerai | Merbok |
| 100° 41' 37.8" | 5° 47' 40.0" | Sg. Chepir | Sik |
| 100° 30' 24.5" | 5° 34' 15.6" | Sg. Muda | Kulim Hi- Tech |
| 100° 30' 24.5" | 5° 34' 15.6" | Sg. Muda | Bukit Selambau |
| 100° 29' 47.3" | 5° 39' 39.7" | Sg. Ketil | Baling |
| 100° 29' 59.6" | 5° 40' 23.0" | Gunung Inas | Baling |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|--------------------------------|----------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 100° 37' 13.8" | 5° 40' 52.4" | Gunung Inas | Baling |
| 100° 26' 28.3" | 5° 36' 30.6" | Kuala Ketil | Kuala Ketil |
| 100° 24' 54.1" | 5° 43' 24.8" | Sg. Muda | Teloi Kanan |
| 100° 29' 47.3" | 5° 19' 40.7" | Sg. Kerian | Mahang |
| 100° 29' 59.6" | 5° 28' 57.0" | Sg. Sedim | Bikan |
| 100° 37' 13.8" | 5° 21' 50.5" | Sg. Kulim | Sg. Ular |
| 100° 26' 28.3" | 5° 08' 18.0" | Sg. Krian | Lubuk Buntar |
| 100° 29' 47.3" | 6° 22' 45.8" | Sg. Raga | Langkawi |
| 100° 29' 59.6" | 6° 22' 47.3" | Sg. Melaka | Langkawi |
| 100° 37' 13.8" | 6° 21' 09.4" | Empangan Malut | Langkawi |
| 100° 26' 28.3" | 6° 15' 16.5" | Sg. Teluk Bujur | Pulau Tuba |
| 100° 24' 54.1" | 6° 20' 24.3" | Ter. MADA, Arau | Langkawi |
| 100° 11' 10" | 6° 20' 26" | Mada Canal (Arau Canal) | Sg. Baru |

(6) Negeri Perak

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|--------------------------------|----------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 100° 55' 15" | 4° 56' 25" | Sg. Biong | Sauk |
| 100° 57' 04" | 4° 48' 04" | Sg. Perak | Kota Lama Kiri |
| 100° 51' 33" | 4° 45' 04" | Sg. Kangsar | Pdg. Rengas |
| 100° 51' 23" | 4° 36' 17" | Sg. Guar | Manong |
| 101° 04' 33" | 4° 49' 21" | Sg. Kerbau | Sg. Siput |
| 101° 04' 10" | 4° 47' 42" | Sg. Bemban | Sg. Siput |
| 101° 04' 19" | 4° 59' 00" | Sg. Kucha | Felda Lasah |
| 101° 10' 45" | 4° 54' 40" | Sg. Kerbau | Perlop I |
| 101° 01' 09" | 5° 42' 36" | Sg. Kuak | Pengkalan Hulu |
| 101° 00' 20" | 5° 45' 33" | Sg. Semangga | Pengkalan Hulu |
| 101° 04' 11" | 5° 42' 00" | Sg. Kuak | Lepang Nenering |
| 101° 01' 02" | 5° 38' 08" | Sg. Kajang | Klian Intan |
| 101° 08' 03" | 5° 31' 51" | Sg. Berok | Kg. Jong |
| 101° 21' 02" | 5° 33' 10" | Sg. Perak-Tasek Temenggor | Pulau Banding |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 101° 12' 43" | 5° 25' 48" | Sg. Perak-Tasek Bersia | Grik V |
| 101° 09' 45" | 5° 21' 40" | Sg. Perak | Air Ganda |
| 101° 03' 11" | 5° 18' 55" | Sg. Pulau | Lawin Kinayat |
| 101° 00' 41" | 5° 11' 43" | Sg. Ibol | Sumpitan |
| 100° 57' 38" | 5° 06' 55" | Sg. Lenggong | Lenggong |
| 100° 28' 38" | 5° 03' 54" | Terusan Besar | Jalan Baru |
| 100° 39' 06" | 4° 57' 38" | Terusan Selinsing | Gunung Semanggol |
| 100° 46' 15" | 4° 52' 45" | Sg. Ranting | Taiping Headworks |
| 100° 46' 15" | 4° 52' 53" | Sg. Anak Ranting | Taiping Headworks |
| 100° 46' 29" | 4° 50' 39" | Sg. Batu Teguh | Taiping Headworks |
| 100° 46' 16" | 4° 50' 06" | Sg. Tupai | Taiping Headworks |
| 100° 45' 53" | 4° 52' 05" | Sg. Air Terjun | Taiping Headworks |
| 100° 49' 23" | 5° 14' 47" | Sg. Seputeh | Sungai Bayor |
| 100° 51' 25" | 5° 15' 40" | Sg. Selama | Selama |
| 100° 52' 30" | 5° 09' 10" | Sg. Klian Gunung | Kelian Gunung |
| 100° 50' 30" | 5° 00' 55" | Sg. Air Hitam | Jelai |
| 100° 49' 58" | 4° 54' 27" | Sg. Kurau | Batu Kurau |
| 100° 45' 25" | 4° 41' 27" | Sg. Terong | Terong |
| 100° 42' 56" | 4° 37' 48" | Sg. Wang | Air Terjun |
| 100° 46' 07" | 4° 37' 38" | Sg. Nyior | Air Terjun |
| 100° 46' 10" | 4° 36' 32" | Sg. Pulau | Air Terjun |
| 100° 46' 13" | 4° 48' 47" | Sg. Larut | Air Kuning |
| 100° 44' 45" | 4° 48' 41" | Sg. Buluh | Air Kuning |
| 101° 09' 41" | 4° 22' 02" | Sg. Kampar | Sg. Kampar |
| 101° 10' 38" | 4° 21' 24" | Sg. Palai | Sg. Palai |
| 101° 02' 42" | 4° 37' 45" | Sg. Tapah | Sg. Tapah |
| 100° 54' 57" | 4° 29' 17" | Sg. Perak | Sultan Idris Shah II |
| 101° 12' 03" | 4° 40' 07" | Sg. Kinta | Ulu Kinta |
| 100° 53' 00" | 4° 19' 19" | Sg. Perak | Teluk Kepayang |
| 100° 53' 00" | 4° 24' 19" | Sg. Perak | Kg. Paloh |
| 100° 54' 12" | 4° 22' 40" | Sg. Perak | BB Seri Iskandar |
| 100° 47' 00" | 4° 31' 11" | Sg. Lichin | Beruas |
| 100° 47' 07" | 4° 32' 29" | Sg. Beruas | Beruas |
| 100° 56' 11" | 4° 11' 02" | Sg. Perak | Kampung Gajah |
| 101° 19' 40" | 4° 17' 25" | Sg. Btg. Padang | Bukit Temoh |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 101° 21' 45" | 4° 13' 04" | Sg. Who | Bukit Temoh |
| 101° 31' 48" | 3° 47' 52" | Sg. Behrang | Sg. Dara |
| 101° 16' 27" | 3° 56' 38" | Sg. Sungkai | Felda Gunung Besout |
| 101° 25' 39" | 3° 57' 17" | Sg. Trolak | Trolak Selatan |
| 101° 25' 39" | 3° 57' 17" | Sg. Trolak | Trolak Timor |
| 101° 24' 41" | 4° 00' 54" | Sg. Tesong | Felda Sg. Klah |
| 101° 30' 28" | 3° 53' 30" | Sg. Gelinting | Tg. Malim (Proton City) |

(7) Negeri Penang

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|---|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 100° 16' 10" | 5° 24' 00" | Sg. Air Hitam | Pulau Pinang |
| 100° 15' 56" | 5° 24' 13" | Sg. Air Itam (Sg. Tepi) | Pulau Pinang untuk Kolam Air, Air Itam |
| 100° 16' 58" | 5° 26' 25" | Sg. Air Terjun | Pulau Pinang |
| 100° 14' 41" | 5° 26' 53" | Sg. Batu Ferringhi | Pulau Pinang |
| 100° 14' 28" | 5° 26' 51" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 20" | 5° 27' 17" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 42" | 5° 26' 52" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 26' 55" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|---|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 100° 14' 45" | 5° 27' 12" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 27' 27" | Sg. Batu Ferringhi | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 17' 32" | 5° 26' 04" | Highlands | Pulau Pinang |
| 100° 17' 28" | 5° 25' 02" | Highlands | Bekalan untuk Kolam Air, Air Terjun |
| 100° 16' 23" | 5° 27' 39" | Sg. Kecil | Pulau Pinang |
| 100° 16' 18" | 5° 27' 44" | Sg. Kecil | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 16' 37" | 5° 27' 23" | Sg. Klean | Pulau Pinang |
| 100° 15' 49" | 5° 26' 23" | Talian Kuasa Sg. Klean | Pulau Pinang untuk Kolam Air Guilemard dan Kolam Air Batu Ferringhi |
| 100° 13' 33" | 5° 24' 15" | Sg. Pinang Barat | Pulau Pinang |
| 100° 13' 40" | 5° 24' 16" | Sg. Pinang Barat | Bekalan untuk Kolam Air Balik Pulau |
| 100° 14' 17" | 5° 28' 15" | Anak Sg. Sebelah 3Vs | Pulau Pinang |
| 100° 16' 33" | 5° 27' 41" | Sg. Siru | Pulau Pinang |
| 100° 16' 45" | 5° 24' 55" | Anak Sg. Tats | Pulau Pinang |
| 100° 14' 55" | 5° 25' 09" | Kolam Air Tiger Hill | Pulau Pinang untuk Kawasan Bukit Bendera |
| 100° 15' 51" | 5° 23' 46" | Empangan Air Itam | Pulau Pinang untuk Kolam Air, Air Itam |
| 100° 30' 13" | 5° 26' 05" | Sg. Kulim | Seberang Perai Utara |
| 100° 29' 15" | 5° 33' 24" | Sg. Muda | Seberang Perai Utara |
| 100° 29' 52" | 5° 22' 33" | Kolam Air Bukit Berapit/Sg. Mengkuang | Seberang Perai Tengah |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|--------------------------------|----------------------------------|--|-----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 100° 30' 39" | 5° 21' 02" | Kolam Air CheroK Tok Kun | Seberang Perai Tengah |
| 100° 32' 11" | 5° 09' 35" | Kolam Air Bukit Panchor | Seberang Perai Selatan |
| 100° 17' 00" | 5° 25' 00" | Sg. Air Putih | Pulau Pinang Air Hitam |
| 100° 14' 41" | 5° 26' 53" | Sg. Batu Ferringhi | Pulau Pinang |
| 100° 14' 35" | 5° 28' 00" | Sg. Batu Ferringhi | Pulau Pinang Batu Ferringhi |
| 100° 34' 00" | 5° 10' 00" | Sg. Kecil Hilir | Seberang Perai Selatan |
| 100° 32' 00" | 5° 09' 00" | Simpang Hantu | Seberang Perai Selatan |
| 100° 13' 00" | 5° 26' 30" | Empangan Teluk Bahang | Pulau Pinang |

(8) Negeri Selangor

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|--------------------------------|----------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 101° 04' 48" | 3° 43' 48" | Sg. Bernam | Sabak Bernam |
| 101° 40' 06" | 3° 27' 54" | Sg. Batang Kali | Hulu Selangor |
| 101° 23' 54" | 3° 40' 30" | Sg. Dusun | Hulu Selangor |
| 101° 26' 48" | 3° 44' 24" | Sg. Bernam | Hulu Selangor |
| 101° 25' 30" | 3° 37' 30" | Sg. Tenggi | Hulu Selangor |
| 101° 35' 42" | 3° 38' 54" | Sg. Inki | Hulu Selangor |
| 101° 41' 30" | 3° 36' 42" | Sg. Gerachi | Hulu Selangor |
| 101° 34' 00" | 3° 24' 30" | Sg. Darah | Hulu Selangor |
| 101° 26' 48" | 3° 24' 00" | Sg. Selangor/Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 10' 30" | 3° 32' 30" | Sg. Sireh | Kuala Selangor |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 101° 41' 10" | 3° 16' 05" | Sg. Batu/ Empangan Batu | Gombak |
| 101° 40' 00" | 3° 17' 00" | Sg. Kanching | Gombak |
| 101° 44' 00" | 3° 18' 30" | Sg. Gombak | Gombak |
| 101° 36' 50" | 3° 14' 15" | Sg. Buloh | Gombak |
| 101° 44' 18" | 3° 17' 54" | Sg. Rumpit | Gombak |
| 101° 37' 36" | 3° 14' 18" | Sg. Keroh | Gombak |
| 101° 33' 00" | 3° 01' 05" | Sg. Pusu | Gombak |
| 101° 48' 06" | 3° 09' 42" | Sg. Ampang | Gombak |
| 101° 29' 00" | 3° 10' 00" | Sg. Subang/ Empangan Subang | Kelang |
| 101° 47' 18" | 3° 04' 42" | Sg. Langat/ Empangan Langat | Hulu Langat |
| 101° 46' 36" | 3° 02' 36" | Sg. Langat/ Empangan Langat | Hulu Langat |
| 101° 47' 12" | 3° 05' 48" | Sg. Serai | Hulu Langat |
| 101° 53' 25" | 3° 13' 15" | Sg. Lolo | Hulu Langat |
| 101° 53' 15" | 3° 12' 50" | Sg. Pangsoon | Hulu Langat |
| 101° 45' 36" | 3° 14' 16" | Sg. Klang/ Empangan Klang Gates | Kuala Lumpur |
| 101° 40' 48" | 2° 50' 48" | Sg. Langat/ Empangan Langat | Kuala Langat |
| 101° 43' 05" | 2° 46' 45" | Sg. Labu | Sepang |
| 101° 44' 20" | 2° 53' 20" | Sg. Semenyih/ Empangan Semenyih | Sepang |
| 101° 25.2' 15.9" | 3° 23.2' 19.9" | Batang Berjuntai/Sg. Selangor | Kuala Selangor |
| 101° 26' 20.5" | 3° 23' 10.2" | Batang Berjuntai/Sg. Selangor | Kuala Selangor |
| 101° 38' 7.7" | 3° 30' 30.4" | Rasa/Sg. Selangor | Kuala Selangor |
| 101° 44' 10" | 2° 53' 30" | Sg. Semenyih | Sepang |
| 101° 42' 50" | 2° 53' 23" | Sg. Semenyih | Sepang |
| 101° 48' 10" | 3° 09' 15" | Sg. Ampang | Gombak |
| 101° 41' 56" | 3° 28' 45" | Sg. Batang Kali | Hulu Selangor |
| 101° 20' 05" | 3° 40' 50" | Sg. Bernam | Sabak Bernam |
| 101° 26' 48" | 3° 44' 30" | Sg. Bernam | Hulu Selangor |
| 101° 31' 42" | 3° 24' 24" | Sg. Darah | Hulu Selangor |
| 101° 23' 54" | 3° 40' 30" | Sg. Dusun | Hulu Selangor |
| 101° 41' 30" | 3° 36' 42" | Sg. Gerachi | Kuala Selangor |
| 101° 44' 00" | 3° 18' 30" | Sg. Gombak | Gombak |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 102° 44' 00" | 3° 17' 06" | Sg. Gombak | Gombak |
| 101° 36' 10" | 3° 39' 05" | Sg. Inki | Hulu Selangor |
| 101° 40' 18" | 3° 16' 24" | Sg. Kepong | Gombak |
| 101° 37' 36" | 3° 14' 18" | Sg. Keroh | Sg. Keroh |
| 101° 30' 48" | 3° 34' 05" | Sg. Kubu | Kuala Selangor |
| 101° 42' 05" | 2° 47' 05" | Sg. Labu | Sepang |
| 101° 40' 48" | 3° 50' 48" | Sg. Langat | Kuala Langat |
| 101° 46' 36" | 3° 02' 36" | Sg. Langat | Hulu Langat |
| 101° 50' 18" | 3° 44' 42" | Sg. Lolo | Hulu Langat |
| 101° 50' 24" | 3° 44' 36" | Sg. Pangsoon | Hulu Langat |
| 101° 43' 48" | 3° 17' 48" | Sg. Pusu | Gombak |
| 101° 40' 00" | 3° 17' 00" | Sg. Rangkap | Gombak |
| 101° 45' 05" | 3° 18' 00" | Sg. Rumput | Gombak |
| 101° 26' 48" | 3° 24' 00" | Sg. Selangor | Kuala Selangor |
| 101° 26' 48" | 3° 22' 06" | Sg. Selangor | Kuala Selangor |
| 101° 47' 12" | 3° 05' 48" | Sg. Serai | Hulu Langat |
| 101° 25' 40" | 3° 38' 15" | Sg. Tenggi | Hulu Selangor |
| 101° 45' 36" | 3° 14' 16" | Empangan Klang Gates | Kuala Lumpur |
| 102° 45' 36" | 4° 14' 16" | Empangan Klang Gates | Gombak |
| 101° 47' 30" | 3° 04' 42" | Empangan Sg. Langat (pembuangan ke dalam Sg. Langat) | Hulu Langat |
| 101° 41' 10" | 3° 17' 05" | Empangan Sg. Batu | Gombak |
| 101° 28' 48" | 3° 10' 00" | Empangan Tasik Subang | Kelang |

(9) Negeri Sarawak

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 111° 52' 47" | 1° 34' 52" | Sg. Batang Rajang | Sibu |
| 111° 52' 27" | 2° 15' 51" | Sg. Batang Rajang | Sibu |
| 110° 16' 42" | 1° 27' 20" | Sg. Sarawak Kiri | Batu Kitang, Kuching |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 110° 16' 44" | 1° 27' 19" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 33" | 1° 26' 58" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 31" | 1° 26' 52" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 12' 30" | 1° 34' 52" | Empangan Matang | Matang, Kuching |
| 110° 11' 14" | 1° 36' 33" | Sg. Cina | Matang, Kuching |
| 110° 12' 53" | 1° 34' 56" | Sebubut Basin Intake | Matang, Kuching |
| 112° 02' 05" | 4° 18' 18" | Sg. Liku | Miri |
| 114° 02' 05" | 4° 18' 19" | Sg. Liku | Miri |
| 114° 06' 05" | 4° 18' 18" | Sg. Liku | Miri |
| 114° 01' 58" | 4° 18' 06" | Sg. Liku | Miri |
| 114° 07' 40" | 4° 11' 37" | Sg. Bakong | Buri |
| 114° 58' 10" | 4° 40' 01" | Sg. Berawan | Limbang |
| 115° 02' 27" | 4° 37' 07" | Sg. Pendaruan | Limbang |
| 112° 25' 45" | 2° 40' 30" | Sg. Krat | Bako |
| 110° 08' 47" | 1° 08' 47" | Sg. Sarawak Kanan | Kuching |
| 109° 51' 11" | 1° 40' 52" | Sg. Lundu | Kuching |
| 110° 28' 50" | 1° 38' 48" | Sg. Selabat | Kuching |
| 110° 24' 04" | 1° 17' 28" | Sg. Tapah | Siburan, Tapah dan Beratok |
| 109° 47' 44" | 1° 47' 41" | Sg. Sebat Besar | Sematan |
| 110° 01' 56" | 1° 26' 52" | Sg. Siniawan | Kuching |
| 111° 31' 10" | 1° 08' 14" | Sg. Batang Undup | Sri Aman |
| 111° 25' 00" | 1° 06' 15" | Sg. Dor | Melugu |
| 111° 37' 10" | 1° 17' 08" | Sg. Dor | Skrang |
| 111° 49' 51" | 1° 00' 11" | Sg. Batang Ai | Lubuk Antu |
| 111° 38' 13" | 1° 07' 53" | Sg. Marup | Engkili |
| 111° 23' 05" | 1° 18' 22" | Sg. Seterap | Pantu |
| 111° 10' 16" | 1° 21' 05" | Sg. Stugok | Lingga |
| 112° 50' 05" | 1° 02' 26" | Sg. Lemanak | Lubuk Antu LDS |
| 111° 32' 16" | 1° 24' 31" | Sg. Stumbin | Stumbin/Bijat |
| 113° 06' 33" | 3° 12' 32" | Sg. Sibiu | Bintulu |
| 113° 06' 32" | 3° 12' 27" | Sg. Sibiu | Bintulu |
| 111° 02' 09" | 1° 39' 38" | Sg. Meludam | Meludam |
| 111° 07' 00" | 1° 10' 00" | Sg. Batang Layar | Betong |
| 111° 23' 57" | 1° 39' 12" | Sg. Obar | Debak |
| 111° 12' 19" | 1° 38' 01" | Sg. Dumit | Beladin |
| 111° 17' 15" | 1° 38' 39" | Sg. Undai | Pusa |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|--------------------------------|----------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 111° 19' 34" | 1° 47' 15" | Sg. Sebelak | Betong |
| 111° 41' 11" | 2° 04' 54" | Sg. Bintangor | Bintangor |
| 111° 30' 05" | 2° 01' 35" | Sg. Bintangor | Sarikei |
| 111° 40' 45" | 1° 53' 35" | Sg. Julau | Pakan |
| 111° 54' 15" | 2° 01' 41" | Sg. Julau | Julau |
| 111° 15' 42" | 2° 00' 54" | Sg. Kerubong | Selalang |
| 115° 23' 11" | 4° 49' 34" | Sg. Gaya | Lawas |
| 114° 55' 48" | 4° 49' 34" | Sg. Menuang | Lubai Tengah |
| 115° 19' 17" | 4° 50' 32" | Sg. Batang Trusan | Trusan |
| 115° 16' 15" | 4° 47' 08" | Sg. Batang Trusan | Sundar |
| 110° 33' 45" | 1° 09' 45" | Sg. Sadong | Serian |
| 110° 37' 0"8 | 1° 08' 03" | Sg. Sinyaru | Triboh |
| 110° 47' 61" | 1° 22' 03" | Sg. Melanjok | Simunjan |
| 110° 30' 21" | 1° 05' 53" | Sg. Kayan | Terbakang |
| 110° 40' 00" | 1° 12' 23" | Sg. Batang Krang | Gedong |
| 110° 37' 01" | 1° 32' 31" | Sg. Nonok | Samarahan |
| 110° 56' 06" | 1° 31' 08" | Sg. Sebuyau | Sebuyau |
| 110° 21' 18" | 1° 01' 45" | Sg. Suhu | Tebedu |
| 110° 45' 58" | 1° 33' 36" | Sg. Sebangau | Sebangau |
| 110° 48' 26" | 1° 03' 04" | Sg. Krang | Balai Ringin |
| 113° 16' 08" | 3° 06' 43" | Sg. Sebangat | Sebauh |
| 112° 51' 32" | 2° 53' 13" | Sg. Sap Kiri | Tatau |
| 113° 29' 49" | 3° 15' 39" | Sg. Batang Kemena | Labang |
| 113° 42' 49" | 3° 09' 54" | Sg. Jelalang | Tubau |
| 112° 47' 05" | 3° 04' 08" | Ground Water | Bintulu |
| 112° 47' 15" | 3° 04' 08" | Sg. Anap | Bintulu |
| 113° 56' 42" | 3° 09' 52" | Sg. Koyan | Bakau |
| 114° 19' 06" | 4° 10' 40" | Sg. Batang Baram | Miri |
| 114° 24' 43" | 3° 45' 56" | Sg. Batang Baram | Long Lama |
| 113° 55' 44" | 4° 06' 26" | Sg. Kejapil | Bekenu |
| 114° 06' 15" | 3° 58' 02" | Sg. Bakong | Beluru |
| 113° 47' 02" | 3° 44' 00" | Sg. Niah | Niah, Subis |
| 112° 11' 26" | 2° 46' 08" | Sg. Kanowit | Kanowit |
| 112° 35' 09" | 3° 00' 47" | Sg. Mukah | Ulu Mukah |
| 112° 23' 28" | 2° 22' 28" | Sg. Ulu Mukah | Ng. Sekuau |
| 112° 04' 19" | 2° 52' 26" | Sg. Kanowit | Machan |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 112° 04' 46" | 2° 17' 15" | Sg. Bawang Assan | Sibu |
| 111° 58' 30" | 2° 41' 15" | Sg. Ngemah | Ng. Jagau |
| 111° 18' 21" | 1° 53' 08" | Sg. Kabah | Ng. Tada |
| 112° 09' 08" | 2° 55' 18" | Sg. Ngemah | Ng. Ngungun |
| 112° 56' 15" | 2° 00' 51" | Sg. Batang Rejang | Kapit |
| 113° 46' 02" | 2° 42' 33" | Sg. Belaga | Belaga |
| 113° 40' 57" | 1° 49' 08" | Sg. Batang Baleh | Ng. Entawau |
| 112° 32' 24" | 2° 56' 17" | Sg. Suyung | Balingan |
| 112° 09' 05" | 2° 05' 57" | Sg. Batang Mukah | Mukah |
| 111° 43' 10" | 2° 50' 05" | Sg. Lasai Dagan | Igan |
| 111° 50' 28" | 2° 44' 11" | Sg. Nangar | Kut |
| 112° 21' 36" | 2° 05' 16" | Sg. Setuan Besar | Kuala Balingian |
| 111° 30' 42" | 2° 38' 14" | Sg. Mabun | Kg. Tian |
| 111° 23' 32" | 2° 2' 5 05" | Sg. Muara Serdang | Semup |
| 111° 15' 12" | 2° 24' 48" | Ground Water | Paloh |
| 111° 35' 08" | 2° 0' 4 49" | Sg. Batang Jemoreng | Matu |
| 111° 27' 54" | 2° 37' 57" | Sg. Daro | Daro |
| 111° 27' 50" | 2° 30' 00" | Ground Water | Saai |

(10) Wilayah Persekutuan Labuan

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 115° 11' 00" | 5° 21' 00" | Sg. Kina Benuwa | Empangan Air Bukit Kuda |
| 115° 10' 00" | 5° 19' 00" | Sg. Kina Benuwa | Empangan Air Sungai Pagar |
| 115° 13' 00" | 5° 19' 00" | Sg. Kina Benuwa | Empangan Air Kerupang |
| 115° 12' 59" | 5° 18' 13" | Sg. Kina Benuwa | |
| 115° 14' 59" | 5° 17' 36" | Telaga Tiub Borehole No. A19 | |
| 115° 15' 01" | 5° 17' 27" | Telaga Tiub Borehole No. M | |
| 115° 15' 02" | 5° 17' 19" | Telaga Tiub Borehole No. B | |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|--------------------------------|----------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 115° 15' 17" | 5° 17' 21" | Telaga Tiub Borehole No. A 21 | |
| 115° 15' 26" | 5° 17' 24" | Telaga Tiub Borehole No. M 11 | |
| 115° 15' 34" | 5° 17' 38" | Telaga Tiub Borehole No. B 23 | |
| 115° 15' 20" | 5° 17' 42" | Telaga Tiub Borehole No. A 12 | |
| 115° 15' 16" | 5° 10' 05" | Telaga Tiub Borehole No. W 5 | |
| 115° 15' 11" | 5° 17' 53" | Telaga Tiub Borehole No. A 20 | |
| 115° 15' 01" | 5° 10' 16" | Telaga Tiub Borehole No. B 24 | |
| 115° 15' 01" | 5° 10' 01" | Telaga Tiub Borehole No. 10 | |
| 115° 14' 59" | 5° 10' 30" | Telaga Tiub Borehole No. W 4 | |
| 115° 14' 48" | 5° 18' 45" | Telaga Tiub Borehole No. W 3 | |
| 115° 14' 26" | 5° 19' 51" | Telaga Tiub Borehole No. B 27 | |
| 115° 14' 26" | 5° 19' 52" | Telaga Tiub Borehole No. A 14 | |
| 115° 14' 13" | 5° 19' 36" | Telaga Tiub Borehole No. A 17 | |
| 115° 14' 29" | 5° 19' 18" | Telaga Tiub Borehole No. A 13 | |
| 115° 14' 38" | 5° 19' 28" | Telaga Tiub Borehole No. B 26 | |
| 115° 14' 33" | 5° 19' 05" | Telaga Tiub Borehole No. W 1 | |
| 115° 14' 39" | 5° 19' 12" | Telaga Tiub Borehole No. B 25 | |
| 115° 14' 40" | 5° 18' 56" | Telaga Tiub Borehole No. W 2 | |
| 115° 14' 44" | 5° 18' 28" | Telaga Tiub Borehole No. A 8 | |
| 115° 14' 28" | 5° 18' 28" | Telaga Tiub Borehole No. A 15 | |
| 115° 15' 09" | 5° 17' 32" | Telaga Tiub Borehole No. B 22 | |
| 115° 14' 46" | 5° 18' 00" | Telaga Tiub Borehole No. A 18 | |

(11) Negeri Sabah

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-----------------------------------|----------------------------------|--|--------------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 116° 09' 24.2" | 5° 55' 21.4" | Sg. Moyog | Penampang |
| 116° 11' 16.2" | 5° 54' 47.6" | Empangan Babagon | Penampang |
| 116° 06' 33.6" | 5° 54' 52.4" | Sg. Moyog | Penampang |
| 116° 00' 00.1" | 5° 41' 06.6" | Sg. Papar | Papar |
| 115° 56' 51.9" | 5° 42' 52.9" | Sg. Papar | Papar |
| 115° 56' 52.2" | 5° 42' 50.2" | Sg. Papar | Papar |
| 116° 02' 12.5" | 5° 42' 31.4" | Sg. Papar | Papar |
| 116° 14' 34.3" | 6° 08' 49.9" | Sg. Tuaran | Tamparuli |
| 116° 16' 09.9" | 6° 07' 54.9" | Sg. Tuaran | Tamparuli |
| 116° 14' 14.3" | 6° 09' 12.2" | Sg. Tuaran | Tamparuli |
| 116° 13' 56.6" | 6° 08' 24.9" | Sg. Tuaran | Tamparuli |
| 116° 17' 55.7" | 6° 11' 20.4" | Sg. Damit | Tuaran |
| 116° 13' 43.2" | 6° 10' 26.1" | Sg. Tuaran | Tuaran |
| 118° 06' 49.7" | 5° 51' 14.2" | Boreholes | Sandakan |
| 118° 06' 47.9" | 5° 51' 22.0" | Boreholes | Sandakan |
| 118° 06' 29.0" | 5° 51' 21.4" | Boreholes | Sandakan |
| 118° 06' 12.9" | 5° 51' 27.6" | Boreholes | Sandakan |
| 118° 05' 51.5" | 5° 51' 21.6" | Boreholes | Sandakan |
| 118° 04' 41.3" | 5° 51' 17.0" | Boreholes | Sandakan |
| 118° 03' 45.1" | 5° 49' 58.8" | Boreholes | Sandakan |
| 118° 03' 49.1" | 5° 50' 04.1" | Boreholes | Sandakan |
| 118° 04' 07.6" | 5° 50' 36.7" | Boreholes | Sandakan |
| 118° 04' 14.1" | 5° 50' 45.5" | Pond | Sandakan |
| 118° 04' 19.8" | 5° 50' 57.5" | Boreholes | Sandakan |
| 118° 04' 31.8" | 5° 51' 14.1" | Boreholes | Sandakan |
| 118° 03' 03.6" | 5° 50' 36.5" | Boreholes | Sandakan |
| 118° 03' 01.2" | 5° 50' 24.9" | Pond | Sandakan |
| 118° 02' 41.5" | 5° 50' 13.6" | Boreholes | Sandakan |
| 118° 02' 46.4" | 5° 50' 00.0" | Boreholes | Sandakan |
| 118° 02' 50.8" | 5° 49' 57.9" | Pond | Sandakan |
| 118° 02' 26.5" | 5° 49' 34.2" | Boreholes | Sandakan |
| 118° 02' 24.3" | 5° 49' 20.8" | Boreholes | Sandakan |
| 118° 02' 11.6" | 5° 49' 59.1" | Boreholes | Sandakan |
| 118° 01' 44.8" | 5° 50' 18.7" | Boreholes | Sandakan |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|--------------------------------|----------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 118° 01' 56.1" | 5° 49' 39.3" | Boreholes | Sandakan |
| 118° 01' 35.2" | 5° 49' 30.1" | Boreholes | Sandakan |
| 118° 01' 22.4" | 5° 49' 25.5" | Boreholes | Sandakan |
| 118° 01' 19.2" | 5° 48' 53.9" | Boreholes | Sandakan |
| 118° 04' 42.1" | 5° 51' 16.0" | Boreholes | Sandakan |
| 117° 50' 11.3" | 5° 29' 07.2" | Sg. Kinabatangan | Kinabatangan |
| 117° 32' 00" | 5° 53' 00" | Sg. Muanad | Beluran |
| 117° 52' 48.3" | 4° 16' 47.0" | Sg. Tawau | Tawau |
| 117° 53' 52.2" | 4° 21' 00.4" | Sg. Tawau | Tawau |
| 117° 46' 31.7" | 4° 27' 10.0" | Sg. Merotai | Tawau |
| 118° 10' 09.6" | 5° 00' 11.4" | Empangan Sepagaya | Lahad Datu |
| 118° 13' 28.0" | 5° 06' 01.2" | Sg. Segama | Lahad Datu |
| 118° 49' 50.8" | 5° 04' 24.5" | Sg. Tungku | Lahad Datu |
| 118° 14' 34.7" | 4° 28' 52.3" | Sg. Kalumpang | Semporna |
| 118° 11' 04.4" | 4° 35' 10.9" | Sg. Kalumpang | Kunak |
| 116° 08' 48.8" | 5° 22' 39.9" | Sg. Liawan | Keningau |
| 116° 10' 01.6" | 5° 26' 18.0" | Sg. Bayayo | Keningau |
| 116° 20' 04.4" | 5° 41' 49.6" | Sg. Tondulu | Tambunan |
| 115° 56' 06.0" | 5° 06' 58.7" | Sg. Padas | Tenom |
| 115° 55' 01.8" | 4° 53' 38.8" | Sg. Padas | Tenom |
| 116° 25' 59.4" | 5° 02' 01.5" | Sg. Panawan | Pensiangan |
| 116° 18' 12.6" | 5° 08' 38.2" | Sg. Sook | Sook |
| 115° 46' 10.9" | 5° 20' 36.2" | Sg. Padas | Beaufort |
| 115° 34' 37.5" | 5° 06' 31.0" | Sg. Lukutan | Sipitang |
| 115° 48' 04.0" | 5° 28' 19.7" | Sg. Membakut | Membakut |
| 116° 48' 04.4" | 6° 56' 20.5" | Empangan Pinangsoo | Kudat |
| 116° 44' 56.6" | 6° 28' 01.1" | Sg. Bandau | Kota Marudu |
| 116° 44' 54.1" | 6° 27' 57.1" | Sg. Pengapunya | Kota Marudu |
| 117° 01' 50.1" | 6° 40' 45.1" | Sg. Bengkoka | Pitas |
| 116° 26' 05.4" | 6° 21' 31.8" | Sg. Tempasuk | Kota Belud |
| 116° 37' 43.4" | 5° 57' 16.1" | Sg. Liwagu | Ranau |
| 117° 06' 00" | 5° 37' 00" | Sg. Maliau | Telupid |
| 116° 59' 00" | 5° 16' 00" | Sg. Milian | Tongod |
| 116° 50' 00" | 5° 12' 00" | Sg. Melikop | Tongod |

(12) Negeri Terengganu

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 103° 21' 20" | 4° 40' 40" | Loji Air Bukit Bauk | Dungun |
| 103° 20' 18" | 4° 47' 40" | Loji Air Serdang | Dungun |
| 103° 10' 20" | 4° 49' 10" | Loji Air Tepus | Dungun |
| 103° 19' 10" | 4° 13' 00" | Loji Air Bukit Sah | Kemaman |
| 103° 11' 50" | 4° 06' 35" | Loji Air Cherul | Kemaman |
| 103° 03' 50" | 5° 15' 55" | Loji Air Kepong | Kuala Terengganu |
| 103° 05' 40" | 5° 17' 37" | Loji Air Bukit Losong | Kuala Terengganu |
| 103° 00' 35" | 5° 04' 30" | Loji Air Kuala Berang | Hulu Terengganu |
| 103° 02' 45" | 4° 55' 45" | Loji Air Gunung | Hulu Terengganu |
| 102° 58' 05" | 5° 09' 10" | Loji Air Telemong | Hulu Terengganu |
| 103° 12' 15" | 4° 50' 38" | Loji Air Jerangau | Hulu Terengganu |
| 102° 30' 00" | 5° 38' 05" | Loji Air Bukit Bunga (Lama dan Baru) | Besut |
| 102° 45' 00" | 5° 05' 00" | Loji Air Pulau Perhentian | Besut |
| 102° 45' 00" | 5° 31' 50" | Sg. Setiu | Setiu |
| 102° 49' 42" | 5° 26' 18" | Sg. Chalok | Setiu |
| 102° 51' 42" | 5° 20' 12" | Sg. Nerus | Setiu |

(13) Negeri Sembilan

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 102° 20' 32" | 2° 34' 06" | Empangan Gemenchek | Gemenchek |
| 102° 34' 18" | 2° 38' 35" | Sg. Muar | Gemas Baru |
| 102° 32' 21" | 2° 38' 23" | Sg. Muar | Pasir Besar |
| 102° 21' 10" | 2° 40' 14" | Sg. Dangi | Dangi Baru |
| 102° 23' 49" | 2° 36' 16" | Telaga Tiub Bukit Rokan | Bukit Rokan |
| 102° 03' 17" | 2° 39' 40" | Sg. Beringin | Pedas Baru |
| 102° 34' 18" | 2° 38' 59" | Empangan Batu Hampar | Pedas Lama |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|----------------------------|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 102° 22' 01" | 2° 43.00' | Sg. Jelai | Felda Kepis |
| 102° 14' 79" | 2° 44' 02" | Sg. Muar | Bukit Pilah |
| 102° 14' 22" | 2° 44' 25" | Sg. Muar | Kuala Pilah |
| 102° 04' 3" | 2° 42' 44" | Sg. Batang Terachi | Ulu Bendul |
| 102° 08' 51.7" | 2° 47' 10" | Empangan Talang/ Sg. Muar | Air Talang |
| 102° 24.090' | 2° 44' 24" | Sg. Muar | Kuala Jelai |
| 102° 22' 0.05" | 2° 48' 59" | Sg. Muar | Bahau Baru |
| 102° 22' 24.8" | 2° 47' 59" | Sg. Muar | Jempol |
| 102° 0.1' 26.4" | 2° 48' 14" | Hutan Simpan Berembun | Pantai |
| 101° 55' 04.5" | 2° 56' 06" | Sg. Broga | Broga |
| 101° 59' 43.4" | 2° 45' 31" | Sg. Batang Benar | Terip |
| 101° 00' 14.3" | 2° 45' 33" | Empangan Sg. Terip | Loji Rawatan Air Sg. Terip |
| 102° 14.784' | 2° 44' 25" | Sg. Mahang | Mahang |
| 101° 50.000' | 2° 48' 14" | Sg. Ngoi-Ngoi | Ngoi-Ngoi |
| 102° 56.927 | 2° 36' 12" | Sg. Linggi | Linggi |
| 102° 03' 59" | 02° 56' 13.1" | Sg. Kemin | Kuala Klawang |
| 102° 13' 04.7" | 3° 04' 31" | Sg. Triang | Lakai |
| 102° 06' 40.0" | 3° 04' 02" | Sg. Kenaboi | Felda Titi |
| 102° 13' 36" | 02° 57' 54" | Sg. Pertang | Durian Tawar |

(14) Negeri Melaka

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|---|
| (1) | | (2) | (3) |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 102° 15' 50" | 2° 17' 55" | Sg. Melaka | Jasin, Melaka Tengah dan Alor Gajah |
| 102° 18' 40" | 2° 20' 00" | Empangan Durian Tunggal | Melaka Tengah, Alor Gajah dan Jasin |
| 102° 15' 50" | 2° 17' 55" | Sg. Melaka | Melaka Tengah, Alor Gajah dan Jasin |
| 102° 15' 25" | 2° 24' 35" | Sg. Batang Melaka | Alor Gajah, Masjid Tanah dan Lubuk Cina |

| <i>Tempat Pengambilan Air</i> | | <i>Nama Sungai/ Kolam Air/Telaga</i> | <i>Skim Pembekalan Air</i> |
|-------------------------------|------------------------------|--|--|
| (1) | (2) | (3) | |
| <i>Garis Bujur (Timur)</i> | <i>Garis Lintang (Utara)</i> | | |
| 102° 29' 12" | 2° 16' 00" | Sg. Kesang | Jasin |
| 102° 28' 15" | 2° 11' 50" | Sg. Kesang | Jasin dan Merlimau |
| 102° 22' 15" | 2° 26' 35" | Empangan Jus | Alor Gajah, Masjid Tanah dan Lubuk Cina |
| 102° 35' 16" | 2° 24' 23" | Empangan Asahan | Asahan, Simpang. Bekoh, Nyalas dan Bukit Senggeh |
| 102° 45' 02" | 2° 12' 10" | Sg. Muar | Melaka Tengah, Alor Gajah dan Jasin |

JADUAL KETUJUH

(Peraturan 12)

SYARAT-SYARAT YANG BOLEH DITERIMA BAGI PEMBUANGAN EFLUEN PERINDUSTRIAN YANG MENGANDUNGI KEPERLUAN OKSIGEN KIMIA (COD) BAGI SEKTOR ATAU INDUSTRI TERTENTU

| (1) | (2) | (3) | (4) |
|--|-------------|--------------------------|-----|
| <i>Tred/Industri</i> | <i>Unit</i> | <i>Standard Standard</i> | |
| | | A | B |
| (a) Industri Pulpa dan kertas | | | |
| (i) kilang pulpa | mg/L | 80 | 350 |
| (ii) kilang kertas (kitar semula) | mg/L | 80 | 250 |
| (iii) kilang pulpa dan kertas | mg/L | 80 | 300 |
| (b) Industri tekstil | mg/L | 80 | 250 |
| (c) Industri penapaian dan kilang penyulingan | mg/L | 400 | 400 |
| (d) Industri lain | mg/L | 80 | 200 |

JADUAL KELAPAN

(Peraturan 13)

SYARAT-SYARAT YANG BOLEH DITERIMA BAGI PEMBUANGAN EFLUEN BERCAMPUR YANG MENGANDUNGI KEPERLUAN OKSIGEN KIMIA (COD)

| (1) <i>Unit</i> | (2) <i>Standard</i> A | (3) <i>Standard</i> B |
|--------------------|-----------------------------|-----------------------------|
| mg/L | 80 | 200 |

JADUAL KESEMBILAN

(Peraturan 14)

SENARAI PARAMETER BAGI PEMBUANGAN EFLUEN PERINDUSTRIAN ATAU EFLUEN BERCAMPUR YANG AMALAN PENGURUSAN TERBAIK TELAH DITERIMA PAKAI

- (i) Nitrogen Nitrat
- (ii) Sulfat
- (iii) Klorida
- (iv) Kobalt
- (v) Bahan Cuci, Anionik
- (vi) Molibdenum
- (vii) Fosfat (sebagai F)
- (viii) Bifenil Poliklorin
- (ix) Berillium
- (x) Vanadium
- (xi) Racun makhluk perosak, racun kulat, racun herba, racun binatang mengerip, gas beracun atau mana-mana biosid atau mana-mana hidrokarbon berklorin yang lain.
- (xii) Apa-apa bahan sama ada dengan sendirinya atau bergabung atau bertindak balas dengan sisa yang boleh mengakibatkan apa-apa gas, wasap atau bau atau bahan yang menyebabkan atau mungkin menyebabkan pencemaran.
- (xiii) Jumlah Karbon Organik
- (xiv) Ketoksikan Efluen Keseluruhan
- (xv) Dioksin
- (xvi) Pengganggu endokrin

JADUAL KESEPULUH

[Subperaturan 7(2)]

LAPORAN BULANAN PEMANTAUAN PEMBUANGAN EFLUEN PERINDUSTRIAN
ATAU EFLUEN BERCAMPUR

SEKSYEN I

PENGENALAN

1. (i) Nama dan alamat premis:

.....
.....

Nombor telefon :..... Nombor faks:.....

(ii) Nombor fail rujukan (jika berkenaan):

2. (i) Nama dan alamat makmal analitis yang bertauliah:

.....
.....

Nombor telefon:..... Nombor faks:.....

(i) Nama penganalisis:

.....

3. (i) Tahun mendapatkan:.....

(ii) Bulan mendapatkan:

SEKSYEN II

MAKLUMAT EFLUEN PERINDUSTRIAN ATAU EFLUEN BERCAMPUR

4. (i) Kadar aliran*

Minimum:..... m³/d, maksimum :..... m³/d

(ii) Kualiti efluen yang dibuang (unit dalam mg/L)

| Parameter*** | Minggu Pertama Tarikh: | Minggu Kedua Tarikh: | Minggu Ketiga Tarikh: | Minggu Keempat Tarikh: |
|---------------------------------------|---------------------------|-------------------------|--------------------------|---------------------------|
| Suhu | | | | |
| Nilai pH | | | | |
| BOD ₅ pada 20°C | | | | |
| COD | | | | |
| Pepejal Terampai | | | | |
| Raksa | | | | |
| Kadmium | | | | |
| Kromium, Heksavalen | | | | |
| Arsenik | | | | |
| Stanid | | | | |
| Plumbum | | | | |
| Kromium, Trivalen | | | | |
| Tembaga | | | | |
| Mangan | | | | |
| Nikel | | | | |
| Timah | | | | |
| Zink | | | | |
| Boron | | | | |
| Besi | | | | |
| Perak | | | | |
| Aluminium | | | | |
| Selenium | | | | |
| Barium | | | | |
| Fluorida | | | | |
| Formaldehid | | | | |
| Fenol | | | | |
| Klorin Bebas | | | | |
| Sulfida | | | | |
| Minyak dan Gris (ekstrak-n-hekzen) | | | | |
| Nitrogen Ammonia | | | | |
| Warna** | | | | |

* Kadar aliran air dan kepekatan efluen perindustrian atau efluen bercampur di petunjuk pembuangan sebagaimana yang ditentukan mengikut tatacara pensampelan dan kaedah penganalisisan sebagaimana yang dinyatakan dalam kaedah 16.

** Unit ADMI

***Pilih hanya parameter yang signifikan

SEKSYEN III

AKUAN

Saya,.....dengan ini mengaku bahawa semua maklumat yang diberikan dalam borang ini adalah benar dan betul sepanjang pengetahuan dan kepercayaan saya.

Tandatangan orang yang bertanggungjawab:

.....

Nama:.....

Jawatan:.....

Tarikh:.....

(Capkan meterai atau cap rasmi syarikat)

JADUAL KESEBELAS

[Subperaturan 17(1)]

SPESIFIKASI PETUNJUK PEMBUANGAN KUMBAHAN

1. Petunjuk pembuangan terletak di dalam sempadan sistem pengolahan efluen perindustrian, sebaik selepas unit terakhir operasi atau unit proses sistem pengolahan efluen perindustrian.
2. Lokasi petunjuk pembuangan yang mudah diakses dan tidak mendatangkan apa-apa bahaya kepada kakitangan yang melaksanakan pemeriksaan di tapak atau pensampelan efluen.
3. Efluen perindustrian atau efluen bercampur yang dibuang melalui paip, pembuluh atau saluran untuk memudahkan pensampelan efluen.
4. Petunjuk pembuangan dikenal pasti secara fizikal dengan memasang tanda pengenalan logam yang dibaca "Petunjuk Pembuangan Terakhir".
5. Petunjuk pembuangan dan sekitarnya disenggarakan dengan sewajarnya supaya bebas daripada apa-apa halangan yang boleh mendatangkan kesulitan atau bahaya semasa pemeriksaan di tapak atau pensampelan efluen.

JADUAL KEDUA BELAS

[Subperaturan 30(1)]

SENARAI KEJADIAN YANG TIDAK DIINGINI

1. Kes pencemaran yang mengancam alam sekitar atau kesihatan awam dan keselamatan secara serius yang memerlukan dihentikan dengan serta merta.
2. Premis yang mengalami bencana industri seperti kebakaran, letupan dan seumpamanya yang boleh mendatangkan risiko yang serius kepada alam sekitar dan orang awam berdekatan di kawasan sekitar.
3. Pencemaran alam sekitar yang serius yang menimbulkan aduan yang kerap dan apabila disiasat, aduan itu didapati berasas dan premis itu melanggar arahan Ketua Pengarah.
4. Premis yang kerap melakukan kesalahan yang sama walaupun telah dikenakan pelbagai tindakan undang-undang oleh Ketua Pengarah seperti notis, arahan, kompaun atau tindakan mahkamah.
5. Kes pencemaran yang menyebabkan kesan negatif yang serius terhadap kehidupan akuatik dan terdapat bukti yang menunjukkan bahawa premis itu tidak mengambil usaha yang cukup untuk mengatasi masalah pencemaran itu.
6. Pencemaran alam sekitar yang serius dengan liputan luas dalam media massa dan terdapat bukti yang menunjukkan bahawa pencemaran berlaku akibat ketiadaan, ketidakoperasian atau pincang tugas sistem pengolahan efluen perindustrian di dalam premis itu.
7. Premis yang membuang efluen perindustrian atau efluen bercampur yang tidak terolah atau separa terolah atau pembuangan efluen perindustrian atau efluen bercampur melalui pintasan dan berdasarkan pengukuran atau penganalisan kualiti efluen perindustrian atau efluen bercampur menggunakan kaedah *in-situ*, terdapat bukti yang menunjukkan bahawa efluen perindustrian atau efluen bercampur itu tidak dipatuhi secara melampau.

JADUAL KETIGA BELAS

[Subperaturan 31(1)]

KAEDAH MENGHITUNG FI LESEN BERKAITAN EFLUEN

| Parameter | Fi setiap kg bahan cemar yang dibuang ke dalam perairan pedalaman sebagaimana yang dinyatakan dalam perenggan 9(1)(a) | Fi setiap kg bahan cemar yang dibuang ke atas mana-mana tanah atau ke dalam perairan pedalaman yang lain |
|---|---|--|
| (i) BOD ₅ pada 20°C | RM 0.50 | RM 0.05 |
| (ii) Raksa | RM 2500.00 | RM 250.00 |
| (iii) Kadmium | RM 2500.00 | RM 250.00 |
| (iv) Kromium, Heksavalen | RM 2500.00 | RM 250.00 |
| (v) Kromium, Trivalen | RM 2500.00 | RM 250.00 |
| (iv) Arsenik | RM 2500.00 | RM 250.00 |
| (vii) Sianid | RM 2500.00 | RM 250.00 |
| (viii) Plumbum | RM 2500.00 | RM 250.00 |
| (ix) Tembaga | RM 2500.00 | RM 250.00 |
| (x) Mangan | RM 2500.00 | RM 250.00 |
| (xi) Nikel | RM 2500.00 | RM 250.00 |
| (xii) Timah | RM 2500.00 | RM 250.00 |
| (xiii) Perak | RM 2500.00 | RM 250.00 |
| (xiv) Selenium | RM 2500.00 | RM 250.00 |
| (xv) Barium | RM 2500.00 | RM 250.00 |
| (xvi) Florida | RM 2500.00 | RM 250.00 |
| (xvii) Formaldehid | RM 2500.00 | RM 250.00 |
| (xviii) Zink | RM 2500.00 | RM 250.00 |
| (xix) Boron | RM 500.00 | RM 50.00 |
| (xx) Besi | RM 500.00 | RM 50.00 |
| (xxi) Fenol | RM 500.00 | RM 50.00 |
| (xxii) Sulfid | RM 500.00 | RM 50.00 |
| (xxiii) Minyak dan Gris (ekstrak n-hekzen) | RM 500.00 RM 500.00 | RM 50.00 RM 50.00 |
| (xiv) Nitrogen Ammonia | RM 500.00 | RM 50.00 |

Dibuat pada 12 Oktober 2009
[AS(S) 91/110/919/026; PN(PU²)280/XII]

DATUK DOUGLAS UGGAH EMBAS
Menteri Sumber Asli dan Alam Sekitar

ENVIRONMENTAL QUALITY ACT 1974

ENVIRONMENTAL QUALITY (INDUSTRIAL EFFLUENT)
REGULATIONS 2009

ARRANGEMENT OF REGULATIONS

Regulation

1. Citation
2. Interpretation
3. Application
4. Obligation to notify the Director General
5. Design and construction of industrial effluent treatment system
6. Compliance with specifications of industrial effluent treatment system
7. Monitoring of discharge of industrial effluent or mixed effluent
8. Proper operation of industrial effluent treatment system
9. Performance monitoring of effluent treatment system
10. Competent person
11. Acceptable conditions for the discharge of industrial effluent other than parameter of chemical oxygen demand (COD)
12. Acceptable conditions for the discharge of industrial effluent for parameter of chemical oxygen demand (COD)
13. Acceptable conditions for the discharge of mixed effluent for parameter of chemical oxygen demand (COD)
14. Best management practice for the discharge of industrial effluent or mixed effluent for other parameters
15. Licence to contravene the acceptable conditions for the discharge of industrial effluent or mixed effluent
16. Methods of analysis and sampling of industrial effluent or mixed effluent
17. Point of discharge of industrial effluent or mixed effluent
18. Prohibition against industrial effluent or mixed effluent discharge through by-pass
19. Dilution of industrial effluent or mixed effluent
20. Spill, accidental discharge or leakage of industrial effluent or mixed effluent

Regulation

21. Prohibition against discharge of industrial effluent or mixed effluent containing certain substances
22. Making changes that alter quality of industrial effluent or mixed effluent
23. Restriction on discharge and disposal of sludge
24. Reporting changes in information furnished for purpose of application of licence
25. Display of licence
26. Continuance of existing conditions and restrictions in case of change in occupancy
27. Maintenance of record
28. Personnel training
29. Owner or occupier to render assistance during inspection
30. Prohibition order
31. Licence fee
32. Penalty
33. Revocation, transitional and savings provision

FIRST SCHEDULE

SECOND SCHEDULE

THIRD SCHEDULE

FOURTH SCHEDULE

FIFTH SCHEDULE

SIXTH SCHEDULE

SEVENTH SCHEDULE

EIGHTH SCHEDULE

NINTH SCHEDULE

TENTH SCHEDULE

ELEVENTH SCHEDULE

TWELTH SCHEDULE

THIRTEENTH SCHEDULE

ENVIRONMENTAL QUALITY ACT 1974

ENVIRONMENTAL QUALITY (INDUSTRIAL EFFLUENT) REGULATIONS 2009

IN exercise of the powers conferred by sections 21, 24, 25 and 51 of the Environmental Quality Act 1974 [*Act 127*], the Minister, after consultation with the Environmental Quality Council, makes the following regulations:

Citation

1. These regulations may be cited as the **Environmental Quality (Industrial Effluent) Regulations 2009**.

Interpretation

2. In these Regulations—

“best management practices” means practical, structural or non-structural methods for the purpose of preventing or reducing the discharge of industrial effluent or mixed effluent containing contaminants;

“industrial effluent” means any waste in the form of liquid or wastewater generated from manufacturing process including the treatment of water for water supply or any activity occurring at any industrial premises;

“mixed effluent” means any waste in the form of liquid or wastewater containing both industrial effluent and sewage;

“sludge” means any deposit of particulate matter settled from any liquid, including deposit resulting from physical, chemical, biological or other treatment of water or industrial effluent or mixed effluent;

“professional engineer” has the same meaning assigned to it in the Registration of Engineers Act 1967 [*Act 138*];

“sewage” means any liquid waste or wastewater discharge containing human, animal, domestic, or putrescible matter in suspension or solution, and includes liquids containing chemicals in solution either in the raw, treated or partially treated form;

“licence” means a licence referred to in regulation 15 pursuant to subsection 25(1) of the Act;

“parameter” means chemical oxygen demand or any of the factors shown in the first column of the Fifth Schedule or in the Ninth Schedule;

“authorized officer” means any officer appointed under section 3 of the Act or any other officer to whom the Director General has delegated his power under section 49 of the Act;

“batch discharge” means any controlled discharge of a discrete volume of industrial effluent or mixed effluent;

“licensed premises” means premises occupied by a person who is the holder of a licence issued in respect of the premises; and

“industrial effluent treatment system” means any facility including the effluent collection system, designed and constructed for the purpose of reducing the potential of the industrial effluent or mixed effluent to cause pollution.

Application

3. These Regulations shall apply to any premises which discharge or release industrial effluent or mixed effluent, onto or into any soil, or into inland waters or Malaysian waters, other than the premises as specified in the First Schedule.

Obligation to notify the Director General

4. (1) No person shall, without prior written notification to the Director General—

- (a) carry out any work on any premises that may result in a new source of discharge of industrial effluent or mixed effluent;
- (b) construct on any land, building or facility designed or used for a purpose that may cause the land or building or facility to result in a new source of discharge of industrial effluent or mixed effluent;
- (c) make or cause or permit to be made any change of, to, or in any plant, machine, or equipment used or installed at the premises that causes a material change in the quantity or quality of the discharge or release from an existing source; or
- (d) carry out upgrading work of an existing industrial effluent treatment system that may result in a material change in the quantity or quality of the discharge or release.

(2) The written notification to carry out any work, construction, or upgrading, or to make any change referred to in subregulation (1) shall be submitted to the Director General in the form as specified in the Second Schedule within thirty days before the work or construction or upgrading commences.

Design and construction of industrial effluent treatment system

5. (1) An owner or occupier of a premises shall conduct any design and construction of the industrial effluent treatment system to collect and treat the industrial effluent or mixed effluent generated within the premises in strict compliance with the specifications as specified in the Guidance Document on the Design and Operation of Industrial Effluent Treatment System issued by the Department of Environment.

(2) An owner or occupier of the premises shall appoint a professional engineer to undertake the design and supervision of the construction of the industrial effluent treatment system and the work performed shall meet the satisfaction of the Director General.

(3) An owner or occupier of the premises and the professional engineer referred to in subregulation (2) shall provide a written declaration, in a form as specified in the Third Schedule, certifying that the design and construction of the industrial effluent treatment system have complied with the specifications referred to in subregulation (1).

(4) As-built drawings that show the placement of any works or structures that form part of the industrial effluent treatment system shall be submitted to the Director General not later than thirty days from the date the premises commences operation.

(5) In this regulation, “as-built drawings” means any engineering drawing that shows the placement of facilities as measured after a work is completed.

Compliance with specifications of industrial effluent treatment system

6. (1) No person shall operate any industrial effluent treatment system unless it complies with the specifications as specified in subregulation 5(1).

(2) The Director General may issue a directive to the owner or occupier of a premises who does not comply with subregulation (1) requiring him to repair, alter, replace or install any additional equipment or instruments or to conduct performance monitoring of industrial effluent treatment system at his own expense, in any manner as the Director General may determine in such directive.

Monitoring of discharge of industrial effluent or mixed effluent

7. (1) An owner or occupier of a premises that discharges industrial effluent or mixed effluent onto or into any soil, or into any inland waters or Malaysian waters shall, at his own expense—

- (a) monitor the concentration of chemical oxygen demand (COD) and any parameter as specified in the Fifth Schedule; and
- (b) install flow-meters, sampling, monitoring and recording equipment.

(2) The owner or occupier of the premises shall maintain a record of industrial effluent or mixed effluent discharge monitoring data in the form as specified in the Tenth Schedule.

(3) The owner or occupier of the premises shall submit the first record of industrial effluent or mixed effluent discharge monitoring data to the Director General within thirty days after the date of coming into operation of these Regulations and the subsequent records shall be submitted within thirty days after the end of the calendar month for the report of the previous month.

(4) The record of industrial effluent or mixed effluent discharge shall also be made available for inspection by any authorized officer.

Proper operation of industrial effluent treatment system

8. (1) An owner or occupier of a premises shall operate and maintain industrial effluent treatment system in accordance with sound engineering practice for the treatment of the industrial effluent or mixed effluent and ensure that all components of the industrial effluent treatment system are in good working condition.

(2) In this regulation, “sound engineering practice” means the manner by which effluent treatment system is operated where the operational characteristics are maintained within the normal range of values commonly used for the treatment of industrial effluent or mixed effluent.

Performance monitoring of effluent treatment system

9. (1) An owner or occupier of a premises shall—

- (a) conduct performance monitoring of the components of the effluent treatment system in the manner as specified in the Guidance Document on Performance Monitoring of Industrial Effluent Treatment Systems issued by Department of Environment; and
- (b) equip himself or itself with facilities, relevant equipment or instruments for the purpose of conducting performance monitoring referred to in paragraph (a).

(2) In this regulation, “performance monitoring” means the routine monitoring of certain characteristics to provide an indication that a treatment process is functional and capable of treating the industrial effluent or mixed effluent.

Competent person

10. (1) The operation of an industrial effluent treatment system shall be supervised by a competent person.

(2) A competent person shall be any person who has been certified by the Director General that he is duly qualified to supervise the operation of an industrial effluent treatment system.

(3) An owner or occupier of a premises shall ensure that a competent person is on duty at any time the industrial effluent treatment system is in operation.

Acceptable conditions for the discharge of industrial effluent other than parameter of chemical oxygen demand (COD)

11. (1) No person shall discharge industrial effluent which contains any parameter in concentration greater than the limits of—

- (a) Standard A, as shown in the third column of the Fifth Schedule, into any inland waters within the catchment areas as specified in the Sixth Schedule; or
- (b) Standard B, as shown in the fourth column of the Fifth Schedule, into any other inland waters or Malaysian waters.

(2) Where two or more of the metals specified as parameters (xii) to (xvi) as specified in the Fifth Schedule, pursuant to subregulation (1), are present in the industrial effluent or mixed effluent, the concentration of these metals shall not be greater than—

- (a) 0.5 milligrammes per litre in total, where Standard A is applicable; or
- (b) 3.0 milligrammes per litre in total, and 1.0 milligramme per litre in total for soluble forms, where Standard B is applicable.

(3) Where Standard B is applicable and when both phenol and free chlorine are present in the same industrial effluent, the concentration of phenol individually, shall not be greater than 0.2 milligrammes per litre and the concentration of free chlorine individually, shall not be greater than 1 milligramme per litre.

Acceptable conditions for the discharge of industrial effluent for parameter of chemical oxygen demand (COD)

12. In relation to any trade or industry as specified in the Seventh Schedule, No person shall discharge industrial effluent which contains COD in concentration greater than the limits of—

- (a) Standard A, as shown in the third column of the Seventh Schedule, into any inland waters within the catchment areas as specified in the Sixth Schedule; or
- (b) Standard B, as shown in the fourth column of the Seventh Schedule, into any other inland waters or Malaysian waters.

Acceptable conditions for the discharge of mixed effluent for parameter of chemical oxygen demand (COD)

13. No person shall discharge mixed effluent which contains COD in concentration greater than the limits of—

- (a) Standard A, as shown in the second column of the Eighth Schedule, into any inland waters within the catchment areas as specified in the Sixth Schedule; or

- (b) Standard B, as shown in the third column of the Eighth Schedule, into any other inland waters or Malaysian waters.

Best management practice for the discharge of industrial effluent or mixed effluent for other parameters

14. An owner or occupier of a premises shall adopt the best management practice for discharge of any industrial effluent or mixed effluent for any parameter as specified in the Ninth Schedule.

Licence to contravene the acceptable conditions for the discharge of industrial effluent or mixed effluent

15. (1) Any person may apply for a licence under subsection 25(1) of the Act to contravene the acceptable conditions of discharge of industrial effluent or mixed effluent as specified in regulations 11, 12 and 13.

(2) An application for a licence shall be made in accordance with the procedures as specified in the Environmental Quality (Licensing) Regulations 1977 [*P.U. (A) 198/1977*] and shall be accompanied by—

- (a) a report on industrial effluent characterization study in a format as specified in the Guidance Document on Industrial Effluent Characterization Study issued by Department of Environment; and
- (b) a licence and effluent-related licence fee as specified in regulation 31.

Methods of analysis and sampling of industrial effluent or mixed effluent

16. (1) An authorized officer may carry out an *in-situ* or *ex-situ* analysis of industrial effluent or mixed effluent using any instruments approved by the Director General.

(2) An analysis of any industrial effluent or mixed effluent discharged or released onto or into any soil, or into any inland waters or Malaysian waters shall be carried out in accordance with the methods contained in the publications as specified in the Fourth Schedule.

(3) The analysis of the industrial effluent or mixed effluent referred to in subregulation (1) shall be based on grab samples.

(4) In this regulation—

- (a) “*ex-situ* analysis” means the analysis conducted on an industrial effluent or mixed effluent sample that has been removed from its location and conducted at the different site from the site the sample was taken;

- (b) “*in-situ* analysis” means the analysis conducted on an industrial effluent or mixed effluent sample that has not been removed from its location or conducted at the site where the sample was taken; and
- (c) “grab sample” means a discrete individual sample taken within a period of time of less than fifteen minutes.

Point of discharge of industrial effluent or mixed effluent

17. (1) The point of discharge of industrial effluent or mixed effluent shall comply with the specifications as specified in the Eleventh Schedule and shall be clearly indicated by the owner or occupier of a premises on the layout plans or engineering drawings certified by a professional engineer.

(2) An owner or occupier of the premises shall submit to the Director General the layout plans or engineering drawings referred to in subregulation (1) thirty days before the premises commence operation.

(3) Where an owner or occupier of the premises proposes to make any alteration or change to the location or position of the point of discharge or design of the outlet at the point of discharge of industrial effluent or mixed effluent, he or it shall notify the Director General within thirty days prior to the making of such alteration or change.

Prohibition against industrial effluent or mixed effluent discharge through by-pass

18. (1) No person shall discharge or cause or permit to be discharged any industrial effluent or mixed effluent onto or into any soil, or into any inland waters or Malaysian waters through a by-pass.

(2) In this regulation, “by-pass” means any diversion of industrial effluent or mixed effluent from any portion of an industrial effluent treatment system.

Dilution of industrial effluent or mixed effluent

19. (1) No person shall dilute, or cause or permit to be diluted, any industrial effluent or mixed effluent, whether raw or treated at any time or point after it is produced at any premises.

(2) Industrial effluent or mixed effluent becomes diluted when it undergoes a process to make it less concentrated by adding water or other liquids from external sources other than liquids or materials used for treating the industrial effluent or mixed effluent.

Spill, accidental discharge or leakage of industrial effluent or mixed effluent

20. (1) In the event of the occurrence of any spill, accidental discharge or leakage of any industrial effluent or mixed effluent which either directly or indirectly gains or may gain access onto or into any soil, or into any inland waters or Malaysian waters, the owner or occupier of the premises shall immediately and not more than six hours from the time of the occurrence inform the Director General of the occurrence.

(2) An owner or occupier of the premises shall, to every reasonable extent, contain, cleanse or abate the spill, accidental discharge or leakage or recover the industrial effluent or mixed effluent discharged in a manner that satisfies the Director General.

(3) The Director General may in any particular case, if he considers it necessary to do so, specify the manner in which the spill, accidental discharge or leakage is to be contained, cleansed or abated and the owner or occupier of the premises shall comply with such specification.

(4) The Director General shall determine any damage caused by any spill, accidental discharge or leakage and may recover all costs and expenses from the owner or occupier of the premises.

(5) Where the Director General undertakes to cleanse or abate the spill, accidental discharge or leakage, he shall determine the full costs and expenses incurred and may recover such costs and expenses from the owner or occupier of the premises in accordance with the provisions of section 47 of the Act.

Prohibition against discharge of industrial effluent or mixed effluent containing certain substances

21. No person shall discharge or cause or permit the discharge of any industrial effluent or mixed effluent containing any of the following substances onto or into any soil, or into any inland waters or Malaysian waters:

- (a) any inflammable solvent;
- (b) any tar or other liquids immiscible with water;
- (c) sawdust or wood waste; or
- (d) sludges.

Making changes that alter quality of industrial effluent or mixed effluent

22. (1) The holder of a licence shall not make, or cause or permit to be made, any changes to the premises or in the manner of running, using, maintaining or operating the premises or in any operation or process carried out at the premises, which cause, or is intended or is likely to cause, a material increase

in the quantity or quality of industrial effluent or mixed effluent, or both discharged from the premises, unless prior written permission of the Director General has been obtained for the change.

(2) For the purpose of subregulation (1), changes to licensed premises include—

- (a) any change in the construction, structure or arrangement of the premises or any building serving the premises;
- (b) any change in the construction, structure, arrangement, alignment, direction or condition of any channeling device, system, or facility serving the premises; and
- (c) any change of, to, or in any plant, machine or equipment used or installed at the premises.

Restriction on discharge or disposal of sludge

23. (1) No person shall discharge, or cause or permit the discharge or disposal of any sludge generated from any production or manufacturing process, any industrial effluent treatment system or water treatment plant onto or into any soil, or surface of any land, or into any inland waters or Malaysian waters without the prior written permission of the Director General.

(2) In this regulation, “water treatment plant” means any facility used or constructed for the treatment of water for domestic or industrial purpose.

Reporting changes in information furnished for purpose of application of licence

24. An applicant for a licence or for the renewal or transfer of such licence shall, within seven days of the occurrence of any material change in any information furnished in his application or furnished in writing pursuant to a request by the Director General under subsection 11(2) of the Act, give the Director General a report in writing of the change.

Display of licence

25. The holder of a licence shall display his licence, together with every document forming part of the licence, in a conspicuous place in the principal building of the premises.

Continuance of existing conditions and restrictions in case of change in occupancy

26. Where a person becomes the occupier of any licensed premises in succession to another person who holds an unexpired licence in respect of such premises, then—

- (a) for a period of fourteen days after the change in occupancy; or

- (b) where the new occupier applies within the period specified in paragraph (a) for the transfer of the licence to him, for the period from the change in occupancy until the final determination of his application,

the conditions and restrictions of the licence shall be binding on the new occupier and shall be observed by him, notwithstanding that he is not yet the holder of the licence or that the licence may, during the period as specified in paragraph (a) or (b), as the case may be, have expired.

Maintenance of record

27. (1) An owner or occupier of a premises equipped with the industrial effluent treatment system shall maintain records of the manufacturing processes, operation, maintenance and performance monitoring of the industrial effluent treatment system.

(2) The records under subregulation (1) shall be made available for inspection by the authorized officer.

Personnel training

28. An owner or occupier of a premises—

- (a) shall ensure that his or its employees attend training on environmental requirements and the best management practices in the operation and maintenance of industrial effluent treatment system before they begin work;
- (b) shall ensure that the training for his or its employees include retraining on updates for new, revised and existing requirements and procedures; and
- (c) shall maintain records of training which shall include the training date, name and position of employee, training provider and a brief description of the training content.

Owner or occupier to render assistance during inspection

29. An owner or occupier of a premises shall provide the Director General or any authorized officer every reasonable assistance and facility available at the premises, including labour, equipment, appliances and instruments that the Director General or authorized officer may require for the purpose of inspection.

Prohibition order

30. (1) In the event of any undesirable occurrence as listed in the Twelfth Schedule, the Director General may issue a prohibition order to an owner or the occupier of a premises prohibiting the further operation of an industrial

plant or process absolutely or conditionally for such period as the Director General may direct or until remedial measures as directed by the Director General have been complied with.

(2) For the purpose of subregulation (1), a copy of the Director General's prohibition order shall be posted in a conspicuous place in the vicinity of the facility to which the said prohibition order refers and No person shall operate such industrial plant or process with effect from the date of the prohibition order until the prohibition order is withdrawn.

(3) Where a prohibition order has been issued to an owner or occupier of any premises prohibiting the further operation of an industrial plant or process, the Director General or any authorized officer shall render such industrial plant or process inoperative by any means as the Director General or authorized officer may determine.

Licence fee

31. (1) The fee for a licence shall be five hundred ringgit and an additional effluent-related licence fee computed in accordance with the method as specified in the Thirteenth Schedule.

(2) The fee for a licence and the additional effluent-related licence of five hundred ringgit shall accompany the application.

(3) If the Director General refuses to approve the application for a licence and the additional effluent-related licence, only the effluent-related licence fee shall be refunded.

(4) The fee for transfer of licence shall be one hundred ringgit.

Penalty

32. Any person who contravenes regulations 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 28, 29 and 30 shall be guilty of an offence and shall, on conviction, be liable to a fine not exceeding one hundred thousand ringgit or to a term of imprisonment for a period not exceeding five years or to both and to a further fine not exceeding one thousand ringgit a day for every day that the offence is continued after the notice by the Director General requiring him to cease the act as specified in the notice has been served upon him.

Revocation, transitional and savings provision

33. (1) The Environmental Quality (Sewage and Industrial Effluents) Regulations 1979 [P.U. (A) 12/1979] is revoked (hereinafter referred to as "the revoked Regulations").

(2) Any application made under this revoked Regulations for a licence to contravene the acceptable conditions, renewal or transfer of such licence, or written permission, which are pending immediately before the date of the coming into operation of these Regulations shall, after the date of the coming into operation of these Regulations, be dealt with under the revoked Regulations and for such purposes it shall be treated as if these Regulation have not been made.

(3) All licences issued and written permission granted under the revoked Regulations shall, after the date of the coming into operation of these Regulations, continue to remain in full force and effect until the licence expires, is amended, suspended or cancelled or the written permission expires or is revoked under the revoked Regulations and for such purposes it shall be treated as if these Regulation have not been made.

(4) The provisions of the revoked Regulations relating to the acceptable conditions for discharge of effluent shall continue to apply until twelve months after the date of the coming into operation of these Regulations where on the date of the coming into operation of these Regulations—

- (a) any work on any construction of any industrial effluent treatment system has not commenced within twelve months from date of the issuance of the written permission for its construction immediately before the date of the coming into operation of these Regulation;
- (b) any work on any construction of any industrial effluent treatment system has commenced but has not been completed immediately before the date of the coming into operation of these Regulations;
or
- (c) any work on any construction of any industrial effluent treatment system has been completed but has not begun its operation before the date of the coming into operation of these Regulations.

(5) Where on the date of the coming into operation of these Regulations, any premises is discharging industrial effluent or mixed effluent into any inland waters which is not specified as a catchment area under the revoked Regulations immediately before the date of the coming into operation of these Regulations, the provisions of the revoked Regulations relating to acceptable conditions for discharge of effluent shall continue to apply to such effluent until twelve months after the date of the coming into operation of these Regulations.

(6) Any proceeding, whether civil or criminal, commenced under the revoked Regulations and are pending on the date of the coming into operation of these Regulations shall, on the date of the coming into operation of these Regulations, be continued and concluded under the revoked Regulations and for such purposes it shall be treated as if these Regulation have not been made.

FIRST SCHEDULE

(Regulation 3)

LIST OF PREMISES TO WHICH THESE REGULATIONS Do NOT APPLY

1. Processing of oil-palm fruit or oil-palm fresh fruit bunches into crude palm oil, whether as an intermediate or final product
2. Processing of natural rubber in technically specified form, latex form including prevulcanised or the form of modified and special purpose rubber, conventional sheet, skim, crepe or scrap rubber
3. Mining activities
4. Processing, manufacturing, washing or servicing of any other products or goods that produce industrial effluent or mixed effluent of less than 60 cubic meters per day
5. Processing, manufacturing, washing or servicing of any other products or goods that produce industrial effluent or mixed effluent of which does not contain oil and grease or those contaminants listed as parameters (v) to (xv) in the first column of the Fifth Schedule
6. Processing, manufacturing, washing or servicing of any other products or goods where the total load of biochemical oxygen demand (BOD₅ at 20°C) or suspended solids or both, shall not exceed 6 kilogrammes per day (concentration of 100 milligrammes per litre)

SECOND SCHEDULE

[Subregulation 4(2)]

NOTIFICATION FOR NEW OR ALTERED SOURCES OF DISCHARGE OF INDUSTRIAL EFFLUENT OR MIXED EFFLUENT

Please tick (✓) in appropriate box

- | | |
|---|--------------------------|
| (i) New construction-Paragraph 4(1)(a) or (b) | <input type="checkbox"/> |
| (ii) Change of equipment or machinery-Paragraph 4(1)(c) | <input type="checkbox"/> |
| (iii) Upgrading of industrial effluent treatment system-Paragraph 4(1)(d) | <input type="checkbox"/> |

A. IDENTIFICATION

1. (i) Name of owner or occupier :.....
- (ii) Identification card number:.....
- (iii) Address of owner or occupier:
- (iv) Telephone number:..... Fax number:.....
2. (i) Name of company:.....
- (ii) Company registration number:.....
(Please attach certificate of registration of company)
- (iii) Address of company:.....
- (iv) Telephone number:.....Fax number:.....

- 3. (i) Name of premises:.....
- (ii) Address of premises:.....
- (iii) Telephone number:..... Fax number:.....
- (v) Latitude:.....degree.....minutes:.....second:.....
- Longitude:.....degree..... minutes:.....second:.....

B. OPERATIONAL INFORMATION

- 4. Proposed commencement date of construction of premises or upgrading work:.....
- 5. Proposed date of occupation/use of premises or the date of the premises has been occupied/used or completion of upgrading work:.....
- 6. If the notification is to increase the capacity of industrial effluent treatment system, please state the reason:.....
- 7. Schedule of operation
 - (i) Number of shifts per day:.....average:.....maximum:.....
 - (ii) Hour of operation:.....average:.....maximum:.....
 - (iii) Number of operating days:.....per week:.....per month:.....per year:.....

- 8. List of raw materials/chemicals *

| <u>Item/Name</u> | <u>Unit of quantity</u> | <u>Quantity per month</u> |
|------------------|-------------------------|---------------------------|
| | | |
| | | |

- 9. List of products *

| <u>Item/Name</u> | <u>Unit of quantity</u> | <u>Quantity per month</u> |
|------------------|-------------------------|---------------------------|
| | | |
| | | |

- 10. Describe in detail the production processes and attach relevant flow diagrams:.....
-
-
- *(Please use attachment if necessary)

- 11. Has cleaner production concept been considered in the proposal? Please give details:.....
-
-

C. INFORMATION ON WATER SUPPLY AND CONSUMPTION

| 12. Water use | Source | Average quantity, m ³ per day |
|-------------------|--------|--|
| (i) Potable water | | |

- (ii) Process water
- (iii) Boiler feed water
- (iv) Cooling water
- (v) Others

13. Is the water treated before use? Yes No
 (Please tick (√) in appropriate box)

14. If yes, please describe the method of managing the sludge generated*:

 *(Please use attachment if necessary)

D. INFORMATION ON INDUSTRIAL EFFLUENT TREATMENT SYSTEM AND EFFLUENT DISPOSAL

15. Submit the following information*:
- (i) Production process flow chart showing points of industrial effluent or mixed effluent generation and flow rate;
 - (ii) (a) Industrial Effluent Characterization Study (IECS) Report based on the Guidelines on Industrial Effluent Characterization Study or information from secondary sources; and
 (b) in the case of notification to upgrade the capacity of treatment system, IECS report shall include overall assessment of the causes contributing to the failure of the existing treatment system to comply with the discharge standard;
 - (iii) Description of the industrial effluent treatment technologies proposed;
 - (iv) Design basis and calculations of proposed industrial effluent treatment system;
 - (v) Calculation and summary of mass balance and block diagram showing the efficiency of unit operations and unit processes for every treated parameter;
 - (vi) Detailed engineering drawings of treatment system (layout, cross section, plan view and side view) including process and instrumentation (P&I) diagram and drainage system layout certified by a professional engineer preferably in the discipline of Environmental Engineering, Chemical Engineering or Civil Engineering with experience in the treatment of industrial effluents or mixed effluent;
 - (vii) #Factory layout plan showing final industrial effluent or mixed effluent discharge point marked 'X';
 - (viii) List of major equipment of industrial effluent treatment system including list of spare parts or stand by equipment such as pump, pH meter *etc.* Document or catalogue of relevant equipment should be submitted;
 - (ix) Proposed measures or plans to ensure continuous compliance including period involving maintenance work taking into consideration the requirements at the design and operational stages;
 - (x) Proposed implementation schedule for the construction of industrial effluent treatment system;
 - (xi) Performance guarantee for the industrial effluent treatment system; and
 - (xii) Consultant/contractor's appointment letter from the premises.
 # (All plans shall be in A1 size)

16. Industrial effluent or mixed effluent discharge

(i) Watercourse:

Type of watercourse

River or stream: Pond: Lake:

Sea: Spring: Well:

Name of the watercourse:.....

Specify if other than the above*:.....

(ii) Sewer:

Name and address of Authority:.....

Name and address of the sewage treatment plant:.....

(iii) Recycle or reuse:

Percentage of process water recycled:.....

(iv) Others: specify:

*(Please use attachment if necessary)

17. Mode and characteristic of effluent discharged

(i) Mode of industrial effluent or mixed effluent discharged

(a) Batch discharge

Discharge frequency:times per day
times per week
times per month

Discharge quantity:m³ per day
m³ per week
m³ per month

Time of discharge:

(b) Continuous discharge

Quantity of continuous effluent discharge

Average quantity/maximum quantity

m³per hour:...../..... m³per day:...../.....

m³per month:...../..... m³per year:...../.....

(ii) Quality of effluent discharged:

| Parameter (in mg/L, unless otherwise specified) | Raw Effluent** | Treated Effluent |
|--|----------------|------------------|
| (1) Temperature °C | | |
| (2) pH value | | |
| (3) BOD ₅ at 20°C | | |
| (4) COD | | |
| (5) Suspended solids | | |
| (6) Mercury | | |
| (7) Cadmium | | |
| (8) Chromium, Hexavalent | | |
| (9) Arsenic | | |
| (10) Cyanide | | |
| (11) Lead | | |
| (12) Chromium, Trivalent | | |
| (13) Copper | | |
| (14) Manganese | | |
| (15) Nickel | | |
| (16) Tin | | |
| (17) Zinc | | |
| (18) Boron | | |
| (19) Iron | | |
| (20) Phenol | | |
| (21) Aluminium | | |
| (22) Barium | | |
| (23) Oil and Grease | | |
| (24) Cobalt | | |
| (25) Silver | | |
| (26) Fluoride (as F) | | |
| (27) Formaldehyde | | |
| (28) Molybdenum | | |
| (29) Chloride | | |
| (30) Chlorine (Free) | | |
| (31) Selenium | | |
| (32) Sulphide | | |
| (33) Sulphate | | |
| (34) Colour | | |
| (35) Ammoniacal Nitrogen | | |
| (36) Nitrate Nitrogen | | |

- (37) Phosphate (as P)
- (38) Detergents, Anionic
- (39) Beryllium
- (40) Vanadium
- (41) Polychlorinated Biphenyls
- (42) Pesticides, fungicides, herbicides, insecticides, rodenticides, fumigants or any other biocides or any other chlorinated hydrocarbons
- (43) Any substance that either by itself or in combination or by reaction with other waste may give rise to any gas, fume or odour or substance which causes or is likely to cause pollution

** Information obtained from Industrial Effluent Characterization Study (IECS) as per item 15(ii)

18. State whether any inflammable solvents, tar or other liquids immiscible with water are used or generated in the production processes:

.....

E. SLUDGE PRODUCTION AND DISPOSAL

19. Sludge generated from the production and industrial effluent treatment unit operations and unit processes:

| Types of sludge (chemical/biological) | Source | Average quantity metric tons per day |
|--|--------|---|
| | | |
| | | |

20. Describe the proposed method of sludge storage or disposal:

.....

F. PERFORMANCE MONITORING PROGRAMME FOR INDUSTRIAL EFFLUENT TREATMENT SYSTEM

21. Describe using additional attachment the detailed proposal on performance monitoring programme for each major unit process and unit operation including information on equipment, competent person, frequency, location, parameter, normal range of values of operational parameters and implementation method.

G. DECLARATION

I,***the owner or occupier, or authorized agent of the owner or occupier hereby declare that all the information given in this application is to the best of my knowledge and belief true and correct.

Date:..... Signature of owner or occupier:.....
or authorized agent ***

Telephone number:..... Full name:

Identity card number:.....

Fax number:..... Designation:.....

Official seal or stamp of the company:.....

***Delete whichever is not applicable

THIRD SCHEDULE
[Subregulation 5(3)]

WRITTEN DECLARATION ON DESIGN AND CONSTRUCTION OF
INDUSTRIAL EFFLUENT TREATMENT SYSTEM

Name of premises:.....

Address of premises:.....

File number of Department of Environment (if applicable):.....

Telephone number:..... Fax number:.....

We, the undersigned hereby declare that the industrial effluent treatment system has been designed and constructed in strict compliance with the minimum requirements and specifications as specified in the Guidance Document on the Design and Operation of Industrial Effluent Treatment Systems issued by the Department of Environment.

..... (Signature of the owner or occupier of a premises)

..... (Signature of the Engineer responsible for the treatment process design)

Date:..... Date:.....

Identity card number:..... Identity card number:.....

* Discipline: chemical/environmental/

others (please specify):.....

B.E.M. registration number:.....

..... (Signature of the Engineer responsible for the structural design)

..... (Signature of the Engineer responsible for the design of mechanical components)

Date:..... Date:.....

Identity card number:..... Identity card number:.....

Discipline: civil Discipline: mechanical

B.E.M. registration number:..... B.E.M. registration number:.....

..... (Signature of the Engineer responsible for the design of electrical and electronic components)

Date:.....

Identity card number:.....

Discipline: electrical

B.E.M. registration number:.....

Note: BEM stands for Board of Engineers, Malaysia
* Delete whichever is not applicable

FOURTH SCHEDULE

[Subregulation 16(2)]

METHODS OF ANALYSIS OF INDUSTRIAL EFFLUENT OR MIXED EFFLUENT

1. The 21st edition of "Standard Methods for the Examination of Water and Wastewater" published jointly by the American Public Health Association, the American Water Works Association and the Water Environment Federation of the United States of America; or
2. "Code of Federal Regulations, Title 40, Chapter 1, Subchapter D, part 136" published by the Office of the Federal Register, National Archives and Records Administration, United States of America.

FIFTH SCHEDULE

[Paragraph 11(1)(a)]

ACCEPTABLE CONDITIONS FOR DISCHARGE OF
INDUSTRIAL EFFLUENT OR MIXED EFFLUENT OF STANDARDS A AND B

| Parameter | Unit | Standard | |
|--------------------------------|-------|----------|---------|
| | | A | B |
| (1) | (2) | (3) | (4) |
| (i) Temperature | °C | 40 | 40 |
| (ii) pH Value | – | 6.0-9.0 | 5.5-9.0 |
| (iii) BOD ₅ at 20°C | mg/L | 20 | 50 |
| (iv) Suspended Solids | mg/L | 50 | 100 |
| (v) Mercury | mg/L | 0.005 | 0.05 |
| (vi) Cadmium | mg/L | 0.01 | 0.02 |
| (vii) Chromium, Hexavalent | mg/L | 0.05 | 0.05 |
| (viii) Chromium, Trivalent | mg/L | 0.20 | 1.0 |
| (ix) Arsenic | mg/L | 0.05 | 0.10 |
| (x) Cyanide | mg/L | 0.05 | 0.10 |
| (xi) Lead | mg/L | 0.10 | 0.5 |
| (xii) Copper | mg/L | 0.20 | 1.0 |
| (xiii) Manganese | mg/L | 0.20 | 1.0 |
| (xiv) Nickel | mg/L | 0.20 | 1.0 |
| (xv) Tin | mg/L | 0.20 | 1.0 |
| (xvi) Zinc | mg/L | 2.0 | 2.0 |
| (xvii) Boron | mg/L | 1.0 | 4.0 |
| (xviii) Iron (Fe) | mg/L | 1.0 | 5.0 |
| (xix) Silver | mg/L | 0.1 | 1.0 |
| (xx) Aluminium | mg/L | 10 | 15 |
| (xxi) Selenium | mg/L | 0.02 | 0.5 |
| (xxii) Barium | mg/L | 1.0 | 2.0 |
| (xxiii) Fluoride | mg/L | 2.0 | 5.0 |
| (xxiv) Formaldehyde | mg/L | 1.0 | 2.0 |
| (xxv) Phenol | mg/L | 0.001 | 1.0 |
| (xxvi) Free Chlorine | mg/L | 1.0 | 2.0 |
| (xxvii) Sulphide | mg/L | 0.50 | 0.50 |
| (xxviii) Oil and Grease | mg/L | 1.0 | 10 |
| (xxix) Ammoniacal Nitrogen | mg/L | 10 | 20 |
| (xxx) Colour | ADMI* | 100 | 200 |

*ADMI—American Dye Manufacturers Institute

SIXTH SCHEDULE

[Paragraph 11(1)(a), Regulations 12 and 13]

LIST OF CATCHMENT AREAS WHERE STANDARD A APPLIES

1. The catchment areas referred to in these Regulations shall be the areas upstream of surface or above subsurface water supply intakes, for the purpose of human consumption including drinking water.
2. For the purpose of these Regulations, the water supply intake points shall include the public water supply intakes specified below:

(1) The State of Johor

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | (2) | (3) | |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 40' 12" | 2° 39' 29" | Sg. Muar | Segamat |
| 102° 55' 37" | 2° 32' 57" | Sg. Segamat | Segamat |
| 102° 03' 10" | 2° 28' 02" | Sg. Jauseh | Segamat |
| 102° 03' 10" | 2° 28' 02" | Sg. Jauseh | Segamat |
| 102° 39' 57" | 2° 25' 29" | Sg. Jementah | Segamat |
| 102° 49' 55" | 2° 21' 01" | Sg. Muar | Muar |
| 102° 47' 11" | 2° 18' 11" | Sg. Muar | Muar |
| 102° 48' 40" | 2° 14' 59" | Sg. Muar | Muar |
| 102° 44' 58" | 2° 12' 04" | Sg. Muar | Muar |
| 102° 44' 03" | 2° 10' 49" | Sg. Muar | Muar |
| 103° 05' 03" | 1° 53' 09" | Sg. Sembrong/Sg. Bekok Transf | Batu Pahat |
| 103° 32' 24" | 2° 12' 03" | Sg. Kahang | Kluang |
| 103° 26' 55" | 2° 05' 27" | Sg. Kahang | Kluang |
| 103° 40' 14" | 2° 35' 15" | Labong Dam | Mersing |
| 103° 47' 31" | 2° 30' 22" | Conggok Dam | Mersing |
| 103° 39' 22" | 2° 23' 13" | Sg. Lenggong | Mersing |
| 103° 54' 07" | 2° 02' 11" | Sg. Sedili Besar | Mersing |
| 103° 51' 16" | 2° 16' 27" | Bekas Lombong | Mersing |
| 104° 02' 52" | 1° 53' 38" | Sg. Gembut | Kota Tinggi |
| 103° 49' 50" | 1° 49' 52" | Sg. Pelepah | Kota Tinggi |
| 103° 43' 19" | 1° 48' 01" | Sg. Linggiu | Kota Tinggi |
| 103° 40' 05" | 1° 48' 14" | Sg. Sayong | Kota Tinggi |
| 103° 40' 05" | 1° 48' 14" | Sg. Sayong | Kota Tinggi |
| 103° 35' 28" | 1° 51' 28" | Sg. Penggeli | Kota Tinggi |
| 104° 08' 08" | 1° 44' 39" | Sg. Sedili Kecil | Kota Tinggi |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 104° 12' 13" | 1° 32' 30" | Lebam Dam | Kota Tinggi |
| 103° 46' 58" | 1° 44' 47" | Sg. Johor | Kota Tinggi |
| 103° 27' 09" | 1° 43' 12" | Sg. Pontian Besar | Johor Bahru |
| 103° 54' 43" | 1° 33' 22" | Layang Dam | Johor Bahru |
| 103° 50' 14" | 1° 44' 07" | Sg. Johor | Johor Bahru |
| 103° 21' 54" | 2° 03' 35" | Sg. Sembrong | Kluang |
| 103° 11' 01" | 1° 58' 23" | Sembrong Dam | Kluang |
| 103° 17' 47" | 1° 49' 33" | Sg. Benut | Kluang |
| 103° 03' 10" | 2° 00' 57" | Sg. Bekok Transf | Batu Pahat |
| 104° 03' 12" | 2° 00' 54" | Sg. Bekok Transf | Batu Pahat |
| 103° 05' 57" | 1° 52' 33" | Sg. Sembrong | Batu Pahat |
| 102° 44' 03" | 2° 10' 49" | Sg. Muar | Muar |
| 102° 44' 05" | 2° 10' 48" | Sg. Muar | Muar |
| 102° 44' 05" | 2° 10' 48" | Sg. Muar | Muar |
| 102° 34' 56" | 2° 19' 37" | Ledang Dam | Muar |
| 102° 50' 09" | 2° 31' 07" | Sg. Segamat | Segamat |
| 102° 50' 17" | 2° 31' 12" | Sg. Segamat | Segamat |
| 102° 49' 59" | 2° 30' 55" | Sg. Segamat | Segamat |
| 103° 03' 11" | 2° 28' 01" | Sg. Jauseh | Segamat |
| 103° 52' 24" | 1° 44' 42" | Sg. Johor | PUB Singapura |
| 103° 39' 40" | 1° 33' 30" | Sg. Skudai | PUB Singapura |
| 103° 34' 14" | 1° 32' 30" | Pulai Dam | PUB Singapura |
| 103° 44' 24" | 1° 33' 00" | Sg. Tebrau | PUB Singapura |

(2) The State of Pahang

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 27' 00" | 3° 41' 00" | Sg. Pahang | Batu Sawar |
| 102° 37' 00" | 3° 26' 00" | Sg. Pahang | Bukit Kertau |
| 102° 36' 00" | 3° 30' 00" | Sg. Pahang | Chenor |
| 102° 39' 00" | 3° 44' 45" | Sg. Jempol | Ulu Jempol |
| 102° 40' 00" | 3° 41' 00" | Sg. Jempol | Jengka 3-7 |
| 102° 51' 00" | 3° 38' 00" | Sg. Liut | Kg. New Zealand |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 39' 00" | 3° 40' 00" | Sg. Jempol | Simpang Jengka |
| 102° 40' 00" | 3° 47' 00" | Sg. Jerik | Sg. Jerik Pump House |
| 102° 56' 00" | 3° 20' 00" | Sg. Mentiga | Cini |
| 192° 59' 00" | 2° 56' 00" | Sg. Keratung | Paluh Rumbek |
| 102° 32' 48" | 3° 07' 63" | Sg. Aur | Aur |
| 102° 51' 27" | 2° 50' 51" | Sg. Keratung | Keratung |
| 103° 23' 00" | 3° 30' 15" | Sg. Pahang | Kg. Mengkasar |
| 103° 10' 00" | 3° 33' 00" | Sg. Pahang | Lepar/Pulau Manis |
| 103° 26' 00" | 3° 08' 00" | Ground Water | Nenasi |
| 103° 23' 30" | 3° 30' 54" | Sg. Pahang | Peramu |
| 103° 19' 00" | 3° 35' 00" | Sg. Pahang | Sekor |
| 101° 53' 00" | 3° 41' 00" | Sg. Bilut | Bilut |
| 101° 45' 00" | 3° 44' 00" | Sg. Hijau | Bukit Fraser Pump House |
| 101° 49' 00" | 3° 56' 00" | Sg. Cheroh | Cheroh |
| 101° 58' 00" | 3° 55' 00" | Sg. Keloi | Dong |
| 101° 49' 00" | 4° 19' 00" | Sg. Jelai | Kuala Medang Pump House |
| 102° 01' 00" | 3° 42' 00" | Sg. Pertang | Lembah Klau |
| 101° 51' 30" | 3° 45' 24" | Sg. Bilut | Raub |
| 101° 59' 00" | 3° 44' 30" | Sg. Chalit | Sg. Chalit Pump House |
| 102° 00' 00" | 3° 46' 00" | Sg. Kelau | Sg. Klau |
| 101° 48' 30" | 3° 44' 00" | Sg. Teras | Teras |
| 101° 47' 45" | 4° 12' 30" | Sg. Koyan | Sg. Koyan Pump House |
| 103° 29' 36" | 3° 48' 24" | Ground Water | Rompin |
| 103° 26' 35" | 2° 37' 15" | Empangan Sg. Anak Endau | Loji Air Seladang |
| 102° 10' 30" | 3° 31' 00" | Sg. Semantan | Bukit Damar |
| 102° 18' 00" | 3° 18' 00" | Sg. Teriang | Bukit Mendi |
| 102° 30' 00" | 2° 18' 00" | Sg. Bera | Bera |
| 102° 33' 00" | 3° 24' 00" | Sg. Pahang | Charuk Puting |
| 102° 22' 00" | 2° 45' 00" | Sg. Kerau | Jenderak Utara |
| 102° 26' 00" | 2° 30' 00" | Sg. Pahang | Lubuk Kawah |
| 102° 23' 00" | 3° 31' 00" | Sg. Semantan | Mentakab |
| 101° 24' 30" | 3° 14' 30" | Sg. Teriang | Triang (Baru) |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 55' 00" | 3° 29' 00" | Sg. Benus | Bt. 4, Jln KL/ Bentong |
| 101° 53' 00" | 3° 20' 00" | Sg. Benus | Janda Baik |
| 102° 03' 00" | 3° 26' 00" | Sg. Temelong | Karak |
| 101° 53' 00" | 3° 41' 00" | Sg. Bilut | Lurah Bilut |
| 102° 07' 10" | 3° 15' 20" | Sg. Gapoi | Sg. Gapoi |
| 101° 54' 00" | 3° 39' 00" | Sg. Penjuring | Sg. Penjuring |
| 102° 00' 30" | 3° 33' 00" | Sg. Kelau | Sg. Sertik |
| 101° 23' 30" | 4° 31' 20" | Sg. Bertam | Brinchang |
| 101° 25' 00" | 4° 34' 00" | Sg. Perlong | Kuala Terla |
| 101° 21' 00" | 4° 27' 00" | Sg. Jasin | Lubok Tamang |
| 101° 24' 10" | 4° 24' 35" | Sg. Bertam | Takong Empangan Bertam Valley |
| 101° 23' 50" | 4° 26' 20" | Sg. Luchut | Takong Empangan Habu |
| 101° 24' 20" | 3° 34' 40" | Sg. Ikan | Takong Empangan Kg. Raja |
| 101° 21' 40" | 4° 24' 20" | Sg. Ringlet | Takong Empangan Ringlet |
| 101° 25' 3" | 4° 30' 02" | Sg. Triangkap | Takong Empangan Tringkap |
| 102° 11' 00" | 4° 00' 00" | Sg. Cheka | Batu Balai |
| 102° 21' 42" | 3° 57' 30" | Sg. Pahang | Batu Embun |
| 102° 28' 00" | 3° 53' 00" | Sg. Tekam | Jengka 8-15 |
| 102° 19' 00" | 4° 03' 00" | Sg. Retang | Padang Piol |
| 102° 31' 48" | 3° 52' 00" | Sg. Tekam | Sg. Tekam |
| 102° 33' 42" | 3° 50' 00" | Sg. Tekam | Sg. Tekam Utara |
| 102° 16' 00" | 4° 05' 00" | Sg. Jelai | Mela |
| 102° 11' 00" | 4° 12' 00" | Sg. Jelai | Bt. 9 Halt |
| 101° 58' 00" | 4° 02' 00" | Sg. Lipis | Benta |
| 101° 59' 00" | 4° 14' 25" | Sg. Jelai | Bukit Betong |
| 102° 02' 10" | 4° 10' 20" | Sg. Lipis | Kuala Lipis |
| 102° 01' 00" | 4° 38' 00" | Sg. Merapoh | Merapoh Pump House |
| 102° 06' 00" | 4° 19' 00" | Sg. Temau | Sg. Temau Pump House |
| 103° 22' 00" | 3° 51' 00" | Sg. Jabor | Alor Batu Pump House |
| 103° 21' 00" | 4° 01' 00" | Sg. Ular | Baru Sg. Ular |
| 103° 12' 00" | 3° 53' 00" | Sg. Riau | Bukit Goh |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | (2) | (3) | |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 103° 15' 34" | 3° 49' 42" | Sg. Kuantan | Bukit Ubi/Kg. Kobat |
| 103° 15' 00" | 3° 15' 00" | Sg. Kuantan | Kg. Padang |
| 103° 6' 00" | 3° 33' 00" | Sg. Lepar | Lepar Hilir |
| 103° 12' 00" | 3° 53' 00" | Sg. Kuantan | Pasir Kemudi |
| 103° 13' 00" | 3° 53' 00" | Sg. Berkelah | Paya Bungor |
| 103° 21' 00" | 3° 50' 00" | Sg. Kuantan | Semambu |
| 103° 02' 00" | 3° 56' 00" | Sg. Kuantan | Sg. Lembing |

(3) The State of Kelantan

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | (2) | (3) | |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 14' 40" | 6° 06' 50" | Kg. Puteh Wellfield | Kampong Puteh |
| 102° 16' 40" | 6° 05' 20" | Kubang Kerian Wellfield | Kubang Kerian |
| 102° 17' 40" | 6° 09' 40" | Pengkalan Chepa Wellfield | Pengkalan Chepa |
| 102° 14' 15" | 6° 05' 50" | Pintu Geng Wellfield | Pintu Geng |
| 102° 16' 15" | 6° 08' 30" | Tg Mas Wellfield | Tanjung Mas |
| 102° 16' 44" | 6° 05' 18" | Kubang Kerian Wellfield | Chicha |
| 102° 15' 57" | 6° 03' 53" | Kg. Seribong Wellfield | Chicha |
| 102° 15' 03" | 6° 04' 41" | Kg. Chicha Wellfield | Chicha |
| 102° 15' 38" | 6° 05' 12" | Kg. Pasir Hor Wellfield | Chicha |
| 102° 16' 48" | 6° 04' 01" | Kg. Pasir Tumboh Wellfield | Chicha |
| 102° 15' 44" | 6° 04' 29" | Kg. Pdg. Penyadat Wellfield | Chicha |
| 102° 17' 08" | 6° 05' 38" | Kg. Kenali Wellfield | Chicha |
| 102° 05' 20" | 6° 12' 30" | Wakaf Bharu Wellfield | Wakaf Bharu |
| 102° 10' 20" | 6° 10' 00" | Wakaf Bharu Wellfield | Wakaf Bharu |
| 102° 11' 50" | 6° 07' 00" | Kg. Sedar Wellfield | Kg. Sedar |
| 102° 09' 23" | 6° 02' 50" | Sg. Kelantan | Kelar |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 58' 00" | 6° 01' 10" | Rantau Panjang Wellfield | Rantau Panjang |
| 102° 08' 31" | 6° 02' 15" | Sg. Kelantan | Lemal |
| 102° 20' 40" | 6° 02' 30" | Kg. Chap Wellfield | Kg. Chap |
| 102° 23' 10" | 5° 00' 50" | Kg. Chap Wellfield | Kg. Chap |
| 102° 24' 00" | 6° 02' 50" | Jelawat Wellfield | Jelawat |
| 102° 24' 50" | 5° 49' 45" | Sg. Rasau | Wakaf Bunut |
| 102° 13' 08" | 5° 31' 17" | Sg. Kelantan | Tualang |
| 102° 13' 40" | 5° 28' 20" | Sg. Lebir | Pahi |
| 102° 12' 20" | 5° 29' 30" | Sg. Lebir | Manik Urai |
| 102° 08' 40" | 5° 41' 50" | Sg. Kelantan | Kg. Bandar Kemubu |
| 102° 05' 45" | 5° 55' 50" | Sg. Muring | Kemahang |
| 102° 09' 20" | 5° 47' 20" | Sg. Kelantan | Bukit Remah |
| 102° 05' 45" | 5° 55' 50" | Sg. Jegor | Bendang Nyior |
| 101° 58' 30" | 5° 50' 00" | Sg. Jedok | Batu Gajah |
| 102° 05' 30" | 5° 41' 00" | Sg. Kerila | Kuala Tiga |
| 101° 53' 25" | 5° 46' 40" | Sg. Lanas | Air Lanas |
| 101° 50' 30" | 5° 42' 00" | Sg. Pergau | Jeli |
| 101° 50' 10" | 5° 29' 20" | Sg. Terang | Kuala Balah |
| 102° 00' 00" | 5° 18' 20" | Sg. Stong | Stong |
| 102° 04' 14" | 5° 04' 50" | Sg. Galas | Limau Kasturi |
| 102° 18' 29" | 4° 57' 40" | Sg. Lebir | Aring |
| 102° 02' 39" | 5° 08' 50" | Sg. Nenggiri | Bertam Baru |
| 102° 10' 36" | 4° 53' 56" | Sg. Ciku | Ciku |
| 101° 59' 07" | 4° 50' 35" | Sg. Ketil | Sg. Ketil |
| 101° 47' 25" | 4° 54' 01" | Sg. Betis | Panggung Lalat |

(4) The State of Perlis

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 09' 14" | 6° 20' 11" | Anak Sungai | Terusan Arau |
| 100° 16' 15" | 6° 25' 15" | Telaga Gerek/ Mada Canal | Arau |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 19' 00" | 6° 31' 25" | Telaga Gerek | Felda Chuping |
| 100° 12' 00" | 6° 42' 30" | Sungai Rasa | Wang Kelian |
| 100° 12' 00" | 6° 34' 00" | Empangan Timah Tasoh | Timah Tasoh |
| 100° 14' 30" | 6° 33' 15" | Telaga Gerek | Semadong |

(5) The State of Kedah

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 25' 48.3" | 6° 12' 20.5" | Ter. MADA Utara | Alor Star |
| 100° 27' 34.8" | 6° 13' 11.9" | Sg. Padang Terap | Jitra |
| 100° 36' 56.0" | 6° 14' 48.0" | Kuala Nerang | Kuala Nerang |
| 100° 41' 18.0" | 6° 20' 27.5" | Sg. Ahning | Padang Sanai |
| 100° 45' 10.5" | 6° 03' 16.3" | Sg. Muda | Nami |
| 100° 29' 2.47" | 5° 55' 29.1" | Ter. MADA Selatan | Bukit Jenun |
| 100° 43' 53.8" | 6° 00' 05.8" | Sg. Muda | Lubuk Merbau |
| 100° 26' 6.2" | 6° 23' 48.0" | Sg. Temin | Changloon |
| 100° 38' 43.4" | 5° 54' 26.2" | Sg. Muda | Jeneri |
| 100° 29' 47.3" | 5° 34' 13.8" | Sg. Muda | Pinang Tunggal |
| 100° 29' 59.6" | 5° 34' 13.8" | Sg. Muda | Pinang Tunggal |
| 100° 37' 13.8" | 5° 49' 26.8" | Sg. Muda | Jeniang |
| 100° 26' 28.3" | 5° 46' 04.7" | Gunung Jerai | Tupah |
| 100° 24' 54.1" | 5° 44' 36.6" | Gunung Jerai | Merbok |
| 100° 41' 37.8" | 5° 47' 40.0" | Sg. Chepir | Sik |
| 100° 30' 24.5" | 5° 34' 15.6" | Sg. Muda | Kulim Hi- Tech |
| 100° 30' 24.5" | 5° 34' 15.6" | Sg. Muda | Bukit Selambau |
| 100° 29' 47.3" | 5° 39' 39.7" | Sg. Ketil | Baling |
| 100° 29' 59.6" | 5° 40' 23.0" | Gunung Inas | Baling |
| 100° 37' 13.8" | 5° 40' 52.4" | Gunung Inas | Baling |
| 100° 26' 28.3" | 5° 36' 30.6" | Kuala Ketil | Kuala Ketil |
| 100° 24' 54.1" | 5° 43' 24.8" | Sg. Muda | Teloi Kanan |
| 100° 29' 47.3" | 5° 19' 40.7" | Sg. Kerian | Mahang |
| 100° 29' 59.6" | 5° 28' 57.0" | Sg. Sedim | Bikan |
| 100° 37' 13.8" | 5° 21' 50.5" | Sg. Kulim | Sg. Ular |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 26' 28.3" | 5° 08' 18.0" | Sg. Krian | Lubuk Buntar |
| 100° 29' 47.3" | 6° 22' 45.8" | Sg. Raga | Langkawi |
| 100° 29' 59.6" | 6° 22' 47.3" | Sg. Melaka | Langkawi |
| 100° 37' 13.8" | 6° 21' 09.4" | Empangan Malut | Langkawi |
| 100° 26' 28.3" | 6° 15' 16.5" | Sg. Teluk Bujur | Pulau Tuba |
| 100° 24' 54.1" | 6° 20' 24.3" | Ter. MADA, Arau | Langkawi |
| 100° 11' 10" | 6° 20' 26" | Mada Canal (Arau Canal) | Sg. Baru |

(6) The State of Perak

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 55' 15" | 4° 56' 25" | Sg. Biong | Sauk |
| 100° 57' 04" | 4° 48' 04" | Sg. Perak | Kota Lama Kiri |
| 100° 51' 33" | 4° 45' 04" | Sg. Kangsar | Padang Rengas |
| 100° 51' 23" | 4° 36' 17" | Sg. Guar | Manong |
| 101° 04' 33" | 4° 49' 21" | Sg. Kerbau | Sg. Siput |
| 101° 04' 10" | 4° 47' 42" | Sg. Bemban | Sg. Siput |
| 101° 04' 19" | 4° 59' 00" | Sg. Kucha | Felda Lasah |
| 101° 10' 45" | 4° 54' 40" | Sg. Kerbau | Perlop I |
| 101° 01' 09" | 5° 42' 36" | Sg. Kuak | Pengkalan Hulu |
| 101° 00' 20" | 5° 45' 33" | Sg. Semangga | Pengkalan Hulu |
| 101° 04' 11" | 5° 42' 00" | Sg. Kuak | Lepang Nenering |
| 101° 01' 02" | 5° 38' 08" | Sg. Kajang | Klian Intan |
| 101° 08' 03" | 5° 31' 51" | Sg. Berok | Kg. Jong |
| 101° 21' 02" | 5° 33' 10" | Sg. Perak - Tasek Temenggor | Pulau Banding |
| 101° 12' 43" | 5° 25' 48" | Sg. Perak - Tasek Bersia | Grik V |
| 101° 09' 45" | 5° 21' 40" | Sg. Perak | Air Ganda |
| 101° 03' 11" | 5° 18' 55" | Sg. Pulau | Lawin Kinayat |
| 101° 00' 41" | 5° 11' 43" | Sg. Ibol | Sumpitan |
| 100° 57' 38" | 5° 06' 55" | Sg. Lenggong | Lenggong |
| 100° 28' 38" | 5° 03' 54" | Terusan Besar | Jalan Baru |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| | (1) | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 39' 06" | 4° 57' 38" | Terusan Selinsing | Gunung Semanggol |
| 100° 46' 15" | 4° 52' 45" | Sg. Ranting | Taiping Headworks |
| 100° 46' 15" | 4° 52' 53" | Sg. Anak Ranting | Taiping Headworks |
| 100° 46' 29" | 4° 50' 39" | Sg. Batu Teguh | Taiping Headworks |
| 100° 46' 16" | 4° 50' 06" | Sg. Tupai | Taiping Headworks |
| 100° 45' 53" | 4° 52' 05" | Sg. Air Terjun | Taiping Headworks |
| 100° 49' 23" | 5° 14' 47" | Sg. Seputeh | Sungai Bayor |
| 100° 51' 25" | 5° 15' 40" | Sg. Selama | Selama |
| 100° 52' 30" | 5° 09' 10" | Sg. Klian Gunung | Kelian Gunung |
| 100° 50' 30" | 5° 00' 55" | Sg. Air Hitam | Jelai |
| 100° 49' 58" | 4° 54' 27" | Sg. Kurau | Batu Kurau |
| 100° 45' 25" | 4° 41' 27" | Sg. Terong | Terong |
| 100° 42' 56" | 4° 37' 48" | Sg. Wang | Air Terjun |
| 100° 46' 07" | 4° 37' 38" | Sg. Nyior | Air Terjun |
| 100° 46' 10" | 4° 36' 32" | Sg. Pulai | Air Terjun |
| 100° 46' 13" | 4° 48' 47" | Sg. Larut | Air Kuning |
| 100° 44' 45" | 4° 48' 41" | Sg. Buluh | Air Kuning |
| 101° 09' 41" | 4° 22' 02" | Sg. Kampar | Sg. Kampar |
| 101° 10' 38" | 4° 21' 24" | Sg. Palai | Sg. Palai |
| 101° 02' 42" | 4° 37' 45" | Sg. Tapah | Sg. Tapah |
| 100° 54' 57" | 4° 29' 17" | Sg. Perak | Sultan Idris Shah II |
| 101° 12' 03" | 4° 40' 07" | Sg. Kinta | Ulu Kinta |
| 100° 53' 00" | 4° 19' 19" | Sg. Perak | Teluk Kepayang |
| 100° 53' 00" | 4° 24' 19" | Sg. Perak | Kg. Paloh |
| 100° 54' 12" | 4° 22' 40" | Sg. Perak | BB Seri Iskandar |
| 100° 47' 00" | 4° 31' 11" | Sg. Lichin | Beruas |
| 100° 47' 07" | 4° 32' 29" | Sg. Beruas | Beruas |
| 100° 56' 11" | 4° 11' 02" | Sg. Perak | Kampung Gajah |
| 101° 19' 40" | 4° 17' 25" | Sg. Btg. Padang | Bukit Temoh |
| 101° 21' 45" | 4° 13' 04" | Sg. Who | Bukit Temoh |
| 101° 31' 48" | 3° 47' 52" | Sg. Behrang | Sg. Dara |
| 101° 16' 27" | 3° 56' 38" | Sg. Sungkai | Felda Gunung Besout |
| 101° 25' 39" | 3° 57' 17" | Sg. Trolak | Trolak Selatan |
| 101° 25' 39" | 3° 57' 17" | Sg. Trolak | Trolak Timor |
| 101° 24' 41" | 4° 00' 54" | Sg. Tesong | Felda Sg. Klah |
| 101° 30' 28" | 3° 53' 30" | Sg. Gelinting | Tg. Malim (Proton City) |

(7) The State of Penang

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|---|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 16' 10" | 5° 24' 00" | Sg. Air Hitam | Pulau Pinang |
| 100° 15' 56" | 5° 24' 13" | Sg. Air Itam (Sg. Tepi) | Pulau Pinang for Kolam Air, Air Itam |
| 100° 16' 58" | 5° 26' 25" | Sg. Air Terjun | Pulau Pinang |
| 100° 14' 41" | 5° 26' 53" | Sg. Batu Ferringhi | Pulau Pinang |
| 100° 14' 28" | 5° 26' 51" | Sg. Batu Ferringhi | Pulau Pinang for Kolam Air Guilemard and Kolam Air Batu Ferringhi |
| 100° 14' 20" | 5° 27' 17" | Sg. Batu Ferringhi | Pulau Pinang for Kolam Air Guilemard and Kolam Air Batu Ferringhi |
| 100° 14' 42" | 5° 26' 52" | Sg. Batu Ferringhi | Pulau Pinang for Kolam Air Guilemard and Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 26' 55" | Sg. Batu Ferringhi | Pulau Pinang for Kolam Air Guilemard and Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 27' 12" | Sg. Batu Ferringhi | Pulau Pinang for Kolam Air Guilemard and Kolam Air Batu Ferringhi |
| 100° 14' 45" | 5° 27' 27" | Sg. Batu Ferringhi | Pulau Pinang for Kolam Air Guilemard and Kolam Air Batu Ferringhi |
| 100° 17' 32" | 5° 26' 04" | Highlands | Pulau Pinang |
| 100° 17' 28" | 5° 25' 02" | Highlands | Bekalan for Kolam Air, Air Terjun |
| 100° 16' 23" | 5° 27' 39" | Sg. Kecil | Pulau Pinang |
| 100° 16' 18" | 5° 27' 44" | Sg. Kecil | Pulau Pinang for Kolam Air Guilemard and Kolam Air Batu Ferringhi |
| 100° 16' 37" | 5° 27' 23" | Sg. Klean | Pulau Pinang |
| 100° 15' 49" | 5° 26' 23" | Talian Kuasa Sg. Klean | Pulau Pinang for Kolam Air Guilemard and Kolam Air Batu Ferringhi |
| 100° 13' 33" | 5° 24' 15" | Sg. Pinang Barat | Pulau Pinang |
| 100° 13' 40" | 5° 24' 16" | Sg. Pinang Barat | Bekalan for Kolam Air Balik Pulau |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|---------------------------------------|--------------------------------------|
| (1) | (2) | (3) | |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 100° 14' 17" | 5° 28' 15" | Anak Sg. Sebelah 3Vs | Pulau Pinang |
| 100° 16' 33" | 5° 27' 41" | Sg. Siru | Pulau Pinang |
| 100° 16' 45" | 5° 24' 55" | Anak Sg. Tats | Pulau Pinang |
| 100° 14' 55" | 5° 25' 09" | Kolam Air Tiger Hill | Pulau Pinang for Bukit Bendera area |
| 100° 15' 51" | 5° 23' 46" | Empangan Air Itam | Pulau Pinang for Kolam Air, Air Itam |
| 100° 30' 13" | 5° 26' 05" | Sg. Kulim | Seberang Perai Utara |
| 100° 29' 15" | 5° 33' 24" | Sg. Muda | Seberang Perai Utara |
| 100° 29' 52" | 5° 22' 33" | Kolam Air Bukit Berapit/Sg. Mengkuang | Seberang Perai Tengah |
| 100° 30' 39" | 5° 21' 02" | Kolam Air Cherok Tok Kun | Seberang Perai Tengah |
| 100° 32' 11" | 5° 09' 35" | Kolam Air Bukit Panchor | Seberang Perai Selatan |
| 100° 17' 00" | 5° 25' 00" | Sg. Air Putih | Pulau Pinang Air Hitam |
| 100° 14' 41" | 5° 26' 53" | Sg. Batu Ferringhi | Pulau Pinang |
| 100° 14' 35" | 5° 28' 00" | Sg. Batu Ferringhi | Pulau Pinang Batu Ferringhi |
| 100° 34' 00" | 5° 10' 00" | Sg. Kecil Hilir | Seberang Perai Selatan |
| 100° 32' 00" | 5° 09' 00" | Simpang Hantu | Seberang Perai Selatan |
| 100° 13' 00" | 5° 26' 30" | Empangan Teluk Bahang | Pulau Pinang |

(8) The State of Selangor

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | (2) | (3) | |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 04' 48" | 3° 43' 48" | Sg. Bernam | Sabak Bernam |
| 101° 40' 06" | 3° 27' 54" | Sg. Batang Kali | Hulu Selangor |
| 101° 23' 54" | 3° 40' 30" | Sg. Dusun | Hulu Selangor |
| 101° 26' 48" | 3° 44' 24" | Sg. Bernam | Hulu Selangor |
| 101° 25' 30" | 3° 37' 30" | Sg. Tenggi | Hulu Selangor |
| 101° 35' 42" | 3° 38' 54" | Sg. Inki | Hulu Selangor |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 41' 30" | 3° 36' 42" | Sg. Gerachi | Hulu Selangor |
| 101° 34' 00" | 3° 24' 30" | Sg. Darah | Hulu Selangor |
| 101° 26' 48" | 3° 24' 00" | Sg. Selangor/Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 25' 20" | 3° 23' 20" | Sg. Selangor/ Empangan Sg. Tinggi | Kuala Selangor |
| 101° 10' 30" | 3° 32' 30" | Sg. Sireh | Kuala Selangor |
| 101° 41' 10" | 3° 16' 05" | Sg. Batu/Empangan Batu | Gombak |
| 101° 40' 00" | 3° 17' 00" | Sg. Kanching | Gombak |
| 101° 44' 00" | 3° 18' 30" | Sg. Gombak | Gombak |
| 101° 36' 50" | 3° 14' 15" | Sg. Buloh | Gombak |
| 101° 44' 18" | 3° 17' 54" | Sg. Rumpit | Gombak |
| 101° 37' 36" | 3° 14' 18" | Sg. Keroh | Gombak |
| 101° 33' 00" | 3° 01' 05" | Sg. Pusu | Gombak |
| 101° 48' 06" | 3° 09' 42" | Sg. Ampang | Gombak |
| 101° 29' 00" | 3° 10' 00" | Sg. Subang/ Empangan Subang | Kelang |
| 101° 47' 18" | 3° 04' 42" | Sg. Langat/ Empangan Langat | Hulu Langat |
| 101° 46' 36" | 3° 02' 36" | Sg. Langat/ Empangan Langat | Hulu Langat |
| 101° 47' 12" | 3° 05' 48" | Sg. Serai | Hulu Langat |
| 101° 53' 25" | 3° 13' 15" | Sg. Lolo | Hulu Langat |
| 101° 53' 15" | 3° 12' 50" | Sg. Pangsoon | Hulu Langat |
| 101° 45' 36" | 3° 14' 16" | Sg. Klang/Empangan Klang Gates | Kuala Lumpur |
| 101° 40' 48" | 2° 50' 48" | Sg. Langat/ Empangan Langat | Kuala Langat |
| 101° 43' 05" | 2° 46' 45" | Sg. Labu | Sepang |
| 101° 44' 20" | 2° 53' 20" | Sg. Semenyih/ Empangan Semenyih | Sepang |
| 101° 25.2' 15.9" | 3° 23.2' 19.9" | Batang Berjantai/Sg. Selangor | Kuala Selangor |
| 101° 26' 20.5" | 3° 23' 10.2" | Batang Berjantai/Sg. Selangor | Kuala Selangor |
| 101° 38' 7.7" | 3° 30' 30.4" | Rasa/Sg. Selangor | Kuala Selangor |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|---|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 101° 44' 10" | 2° 53' 30" | Sg. Semenyih | Selangor |
| 101° 42' 50" | 2° 53' 23" | Sg. Semenyih | Selangor |
| 101° 48' 10" | 3° 09' 15" | Sg. Ampang | Gombak |
| 101° 41' 56" | 3° 28' 45" | Sg. Batang Kali | Hulu Selangor |
| 101° 20' 05" | 3° 40' 50" | Sg. Bernam | Sabak Bernam |
| 101° 26' 48" | 3° 44' 30" | Sg. Bernam | Hulu Selangor |
| 101° 31' 42" | 3° 24' 24" | Sg. Darah | Hulu Selangor |
| 101° 23' 54" | 3° 40' 30" | Sg. Dusun | Hulu Selangor |
| 101° 41' 30" | 3° 36' 42" | Sg. Gerachi | Kuala Selangor |
| 101° 44' 00" | 3° 18' 30" | Sg. Gombak | Gombak |
| 102° 44' 00" | 3° 17' 06" | Sg. Gombak | Gombak |
| 101° 36' 10" | 3° 39' 05" | Sg. Inki | Hulu Selangor |
| 101° 40' 18" | 3° 16' 24" | Sg. Kepong | Gombak |
| 101° 37' 36" | 3° 14' 18" | Sg. Keroh | Sg. Keroh |
| 101° 30' 48" | 3° 34' 05" | Sg. Kubu | Kuala Selangor |
| 101° 42' 05" | 2° 47' 05" | Sg. Labu | Selangor |
| 101° 40' 48" | 3° 50' 48" | Sg. Langat | Kuala Langat |
| 101° 46' 36" | 3° 02' 36" | Sg. Langat | Hulu Langat |
| 101° 50' 18" | 3° 44' 42" | Sg. Lolo | Hulu Langat |
| 101° 50' 24" | 3° 44' 36" | Sg. Pangsoo | Hulu Langat |
| 101° 43' 48" | 3° 17' 48" | Sg. Pusu | Gombak |
| 101° 40' 00" | 3° 17' 00" | Sg. Rangkap | Gombak |
| 101° 45' 05" | 3° 18' 00" | Sg. Rumput | Gombak |
| 101° 26' 48" | 3° 24' 00" | Sg. Selangor | Kuala Selangor |
| 101° 26' 48" | 3° 22' 06" | Sg. Selangor | Kuala Selangor |
| 101° 47' 12" | 3° 05' 48" | Sg. Serai | Hulu Langat |
| 101° 25' 40" | 3° 38' 15" | Sg. Tenggi | Hulu Selangor |
| 101° 45' 36" | 3° 14' 16" | Empangan Klang Gates | Kuala Lumpur |
| 102° 45' 36" | 4° 14' 16" | Empangan Klang Gate | Gombak |
| 101° 47' 30" | 3° 04' 42" | Empangan Sg. Langat (discharge into Sg. Langat) | Hulu Langat |
| 101° 41' 10" | 3° 17' 05" | Empangan Sg. Batu | Gombak |
| 101° 28' 48" | 3° 10' 00" | Empangan Tasik Subang | Kelang |

(9) The State of Sarawak

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 111° 52' 47" | 1° 34' 52" | Sg. Batang Rajang | Sibu |
| 111° 52' 27" | 2° 15' 51" | Sg. Batang Rajang | Sibu |
| 110° 16' 42" | 1° 27' 20" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 44" | 1° 27' 19" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 33" | 1° 26' 58" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 16' 31" | 1° 26' 52" | Sg. Sarawak Kiri | Batu Kitang, Kuching |
| 110° 12' 30" | 1° 34' 52" | Empangan Matang | Matang, Kuching |
| 110° 11' 14" | 1° 36' 33" | Sg. Cina | Matang, Kuching |
| 110° 12' 53" | 1° 34' 56" | Sebubut Basin Intake | Matang, Kuching |
| 112° 02' 05" | 4° 18' 18" | Sg. Liku | Miri |
| 114° 02' 05" | 4° 18' 19" | Sg. Liku | Miri |
| 114° 06' 05" | 4° 18' 18" | Sg. Liku | Miri |
| 114° 01' 58" | 4° 18' 06" | Sg. Liku | Miri |
| 114° 07' 40" | 4° 11' 37" | Sg. Bakong | Buri |
| 114° 58' 10" | 4° 40' 01" | Sg. Berawan | Limbang |
| 115° 02' 27" | 4° 37' 07" | Sg. Pendaruan | Limbang |
| 112° 25' 45" | 2° 40' 30" | Sg. Krat | Bako |
| 110° 08' 47" | 1° 08' 47" | Sg. Sarawak Kanan | Kuching |
| 109° 51' 11" | 1° 40' 52" | Sg. Lundu | Kuching |
| 110° 28' 50" | 1° 38' 48" | Sg. Selabat | Kuching |
| 110° 24' 04" | 1° 17' 28" | Sg. Tapah | Siburan, Tapah and Beratok |
| 109° 47' 44" | 1° 47' 41" | Sg. Sebat Besar | Sematan |
| 110° 01' 56" | 1° 26' 52" | Sg. Siniawan | Kuching |
| 111° 31' 10" | 1° 08' 14" | Sg. Batang Undup | Sri Aman |
| 111° 25' 00" | 1° 06' 15" | Sg. Dor | Melugu |
| 111° 37' 10" | 1° 17' 08" | Sg. Dor | Skrang |
| 111° 49' 51" | 1° 00' 11" | Sg. Batang Ai | Lubuk Antu |
| 111° 38' 13" | 1° 07' 53" | Sg. Marup | Engkili |
| 111° 23' 05" | 1° 18' 22" | Sg. Seterap | Pantu |
| 111° 10' 16" | 1° 21' 05" | Sg. Stugok | Lingga |
| 112° 50' 05" | 1° 02' 26" | Sg. Lemanak | Lubuk Antu LDS |
| 111° 32' 16" | 1° 24' 31" | Sg. Stumbin | Stumbin/Bijat |
| 113° 06' 33" | 3° 12' 32" | Sg. Sibiu | Bintulu |
| 113° 06' 32" | 3° 12' 27" | Sg. Sibiu | Bintulu |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| | (1) | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 111° 02' 09" | 1° 39' 38" | Sg. Meludam | Meludam |
| 111° 07' 00" | 1° 10' 00" | Sg. Batang Layar | Betong |
| 111° 23' 57" | 1° 39' 12" | Sg. Obar | Debak |
| 111° 12' 19" | 1° 38' 01" | Sg. Dumit | Beladin |
| 111° 17' 15" | 1° 38' 39" | Sg. Undai | Pusa |
| 111° 19' 34" | 1° 47' 15" | Sg. Sebelak | Betong |
| 111° 41' 11" | 2° 04' 54" | Sg. Bintangor | Bintangor |
| 111° 30' 05" | 2° 01' 35" | Sg. Bintangor | Sarikei |
| 111° 40' 45" | 1° 53' 35" | Sg. Julau | Pakan |
| 111° 54' 15" | 2° 01' 41" | Sg. Julau | Julau |
| 111° 15' 42" | 2° 00' 54" | Sg. Kerubong | Selangang |
| 115° 23' 11" | 4° 49' 34" | Sg. Gaya | Lawas |
| 114° 55' 48" | 4° 49' 34" | Sg. Menuang | Lubai Tengah |
| 115° 19' 17" | 4° 50' 32" | Sg. Batang Trusan | Trusan |
| 115° 16' 15" | 4° 47' 08" | Sg. Batang Trusan | Sundar |
| 110° 33' 45" | 1° 09' 45" | Sg. Sadong | Serian |
| 110° 37' 0"8 | 1° 08' 03" | Sg. Sinyaru | Triboh |
| 110° 47' 61" | 1° 22' 03" | Sg. Melanjok | Simunjan |
| 110° 30' 21" | 1° 05' 53" | Sg. Kayan | Terbakang |
| 110° 40' 00" | 1° 12' 23" | Sg. Batang Krang | Gedong |
| 110° 37' 01" | 1° 32' 31" | Sg. Nonok | Samarahan |
| 110° 56' 06" | 1° 31' 08" | Sg. Sebuyau | Sebuyau |
| 110° 21' 18" | 1° 01' 45" | Sg. Suhu | Tebedu |
| 110° 45' 58" | 1° 33' 36" | Sg. Sebangau | Sebangau |
| 110° 48' 26" | 1° 03' 04" | Sg. Krang | Balai Ringin |
| 113° 16' 08" | 3° 06' 43" | Sg. Sebangat | Sebauh |
| 112° 51' 32" | 2° 53' 13" | Sg. Sap Kiri | Tatau |
| 113° 29' 49" | 3° 15' 39" | Sg. Batang Kemena | Labang |
| 113° 42' 49" | 3° 09' 54" | Sg. Jelalang | Tubau |
| 112° 47' 05" | 3° 04' 08" | Ground Water | Bintulu |
| 112° 47' 15" | 3° 04' 08" | Sg. Anap | Bintulu |
| 113° 56' 42" | 3° 09' 52" | Sg. Koyan | Bakau |
| 114° 19' 06" | 4° 10' 40" | Sg. Batang Baram | Miri |
| 114° 24' 43" | 3° 45' 56" | Sg. Batang Baram | Long Lama |
| 113° 55' 44" | 4° 06' 26" | Sg. Kejapil | Bekenu |
| 114° 06' 15" | 3° 58' 02" | Sg. Bakong | Beluru |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 113° 47' 02" | 3° 44' 00" | Sg. Niah | Niah, Subis |
| 112° 11' 26" | 2° 46' 08" | Sg. Kanowit | Kanowit |
| 112° 35' 09" | 3° 00' 47" | Sg. Mukah | Ulu Mukah |
| 112° 23' 28" | 2° 22' 28" | Sg. Ulu Mukah | Ng. Sekuau |
| 112° 04' 19" | 2° 52' 26" | Sg. Kanowit | Machan |
| 112° 04' 46" | 2° 17' 15" | Sg. Bawang Assan | Sibu |
| 111° 58' 30" | 2° 41' 15" | Sg. Ngemah | Ng. Jagau |
| 111° 18' 21" | 1° 53' 08" | Sg. Kabah | Ng. Tada |
| 112° 09' 08" | 2° 55' 18" | Sg. Ngemah | Ng. Ngungun |
| 112° 56' 15" | 2° 00' 51" | Sg. Batang Rejang | Kapit |
| 113° 46' 02" | 2° 42' 33" | Sg. Belaga | Belaga |
| 113° 40' 57" | 1° 49' 08" | Sg. Batang Baleh | Ng. Entawau |
| 112° 32' 24" | 2° 56' 17" | Sg. Suyung | Balingan |
| 112° 09' 05" | 2° 05' 57" | Sg. Batang Mukah | Mukah |
| 111° 43' 10" | 2° 50' 05" | Sg. Lasai Dagan | Igan |
| 111° 50' 28" | 2° 44' 11" | Sg. Nangar | Kut |
| 112° 21' 36" | 2° 05' 16" | Sg. Setuan Besar | Kuala Balingian |
| 111° 30' 42" | 2° 38' 14" | Sg. Mabun | Kg. Tian |
| 111° 23' 32" | 2° 2' 5' 05" | Sg. Muara Serdang | Semup |
| 111° 15' 12" | 2° 24' 48" | Ground Water | Paloh |
| 111° 35' 08" | 2° 0' 4' 49" | Sg. Batang Jemoreng | Matu |
| 111° 27' 54" | 2° 37' 57" | Sg. Daro | Daro |
| 111° 27' 50" | 2° 30' 00" | Ground Water | Saai |

(10) Federal Territory of Labuan

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 115° 11' 00" | 5° 21' 00" | Sg. Kina Benuwa | Empangan Air Bukit Kuda |
| 115° 10' 00" | 5° 19' 00" | Sg. Kina Benuwa | Empangan Air Sungai Pagar |
| 115° 13' 00" | 5° 19' 00" | Sg. Kina Benuwa | Empangan Air Kerupang |
| 115° 12' 59" | 5° 18' 13" | Sg. Kina Benuwa | |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 115° 14' 59" | 5° 17' 36" | Telaga Tiub Borehole No. A19 | |
| 115° 15' 01" | 5° 17' 27" | Telaga Tiub Borehole No. M | |
| 115° 15' 02" | 5° 17' 19" | Telaga Tiub Borehole No. B | |
| 115° 15' 17" | 5° 17' 21" | Telaga Tiub Borehole No. A 21 | |
| 115° 15' 26" | 5° 17' 24" | Telaga Tiub Borehole No. M 11 | |
| 115° 15' 34" | 5° 17' 38" | Telaga Tiub Borehole No. B 23 | |
| 115° 15' 20" | 5° 17' 42" | Telaga Tiub Borehole No. A 12 | |
| 115° 15' 16" | 5° 10' 05" | Telaga Tiub Borehole No. W 5 | |
| 115° 15' 11" | 5° 17' 53" | Telaga Tiub Borehole No. A 20 | |
| 115° 15' 01" | 5° 10' 16" | Telaga Tiub Borehole No. B 24 | |
| 115° 15' 01" | 5° 10' 01" | Telaga Tiub Borehole No. 10 | |
| 115° 14' 59" | 5° 10' 30" | Telaga Tiub Borehole No. W 4 | |
| 115° 14' 48" | 5° 18' 45" | Telaga Tiub Borehole No. W 3 | |
| 115° 14' 26" | 5° 19' 51" | Telaga Tiub Borehole No. B 27 | |
| 115° 14' 26" | 5° 19' 52" | Telaga Tiub Borehole No. A 14 | |
| 115° 14' 13" | 5° 19' 36" | Telaga Tiub Borehole No. A 17 | |
| 115° 14' 29" | 5° 19' 18" | Telaga Tiub Borehole No. A 13 | |
| 115° 14' 38" | 5° 19' 28" | Telaga Tiub Borehole No. B 26 | |
| 115° 14' 33" | 5° 19' 05" | Telaga Tiub Borehole No. W 1 | |
| 115° 14' 39" | 5° 19' 12" | Telaga Tiub Borehole No. B 25 | |
| 115° 14' 40" | 5° 18' 56" | Telaga Tiub Borehole No. W 2 | |
| 115° 14' 44" | 5° 18' 28" | Telaga Tiub Borehole No. A 8 | |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 115° 14' 28" | 5° 18' 28" | Telaga Tiub Borehole No. A 15 | |
| 115° 15' 09" | 5° 17' 32" | Telaga Tiub Borehole No. B 22 | |
| 115° 14' 46" | 5° 18' 00" | Telaga Tiub Borehole No. A 18 | |

(11) The State of Sabah

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 116° 09' 24.2" | 5° 55' 21.4" | Sg. Moyog | Penampang |
| 116° 11' 16.2" | 5° 54' 47.6" | Empangan Babagon | Penampang |
| 116° 06' 33.6" | 5° 54' 52.4" | Sg. Moyog | Penampang |
| 116° 00' 00.1" | 5° 41' 06.6" | Sg. Papar | Papar |
| 115° 56' 51.9" | 5° 42' 52.9" | Sg. Papar | Papar |
| 115° 56' 52.2" | 5° 42' 50.2" | Sg. Papar | Papar |
| 116° 02' 12.5" | 5° 42' 31.4" | Sg. Papar | Papar |
| 116° 14' 34.3" | 6° 08' 49.9" | Sg. Tuaran | Tamparuli |
| 116° 16' 09.9" | 6° 07' 54.9" | Sg. Tuaran | Tamparuli |
| 116° 14' 14.3" | 6° 09' 12.2" | Sg. Tuaran | Tamparuli |
| 116° 13' 56.6" | 6° 08' 24.9" | Sg. Tuaran | Tamparuli |
| 116° 17' 55.7" | 6° 11' 20.4" | Sg. Damit | Tuaran |
| 116° 13' 43.2" | 6° 10' 26.1" | Sg. Tuaran | Tuaran |
| 118° 06' 49.7" | 5° 51' 14.2" | Boreholes | Sandakan |
| 118° 06' 47.9" | 5° 51' 22.0" | Boreholes | Sandakan |
| 118° 06' 29.0" | 5° 51' 21.4" | Boreholes | Sandakan |
| 118° 06' 12.9" | 5° 51' 27.6" | Boreholes | Sandakan |
| 118° 05' 51.5" | 5° 51' 21.6" | Boreholes | Sandakan |
| 118° 04' 41.3" | 5° 51' 17.0" | Boreholes | Sandakan |
| 118° 03' 45.1" | 5° 49' 58.8" | Boreholes | Sandakan |
| 118° 03' 49.1" | 5° 50' 04.1" | Boreholes | Sandakan |
| 118° 04' 07.6" | 5° 50' 36.7" | Boreholes | Sandakan |
| 118° 04' 14.1" | 5° 50' 45.5" | Pond | Sandakan |
| 118° 04' 19.8" | 5° 50' 57.5" | Boreholes | Sandakan |

| <i>Location of Water Intake</i> | | <i>Name of River/ Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|--------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 118° 04' 31.8" | 5° 51' 14.1" | Boreholes | Sandakan |
| 118° 03' 03.6" | 5° 50' 36.5" | Boreholes | Sandakan |
| 118° 03' 01.2" | 5° 50' 24.9" | Pond | Sandakan |
| 118° 02' 41.5" | 5° 50' 13.6" | Boreholes | Sandakan |
| 118° 02' 46.4" | 5° 50' 00.0" | Boreholes | Sandakan |
| 118° 02' 50.8" | 5° 49' 57.9" | Pond | Sandakan |
| 118° 02' 26.5" | 5° 49' 34.2" | Boreholes | Sandakan |
| 118° 02' 24.3" | 5° 49' 20.8" | Boreholes | Sandakan |
| 118° 02' 11.6" | 5° 49' 59.1" | Boreholes | Sandakan |
| 118° 01' 44.8" | 5° 50' 18.7" | Boreholes | Sandakan |
| 118° 01' 56.1" | 5° 49' 39.3" | Boreholes | Sandakan |
| 118° 01' 35.2" | 5° 49' 30.1" | Boreholes | Sandakan |
| 118° 01' 22.4" | 5° 49' 25.5" | Boreholes | Sandakan |
| 118° 01' 19.2" | 5° 48' 53.9" | Boreholes | Sandakan |
| 118° 04' 42.1" | 5° 51' 16.0" | Boreholes | Sandakan |
| 117° 50' 11.3" | 5° 29' 07.2" | Sg. Kinabatangan | Kinabatangan |
| 117° 32' 00" | 5° 53' 00" | Sg. Muanad | Beluran |
| 117° 52' 48.3" | 4° 16' 47.0" | Sg. Tawau | Tawau |
| 117° 53' 52.2" | 4° 21' 00.4" | Sg. Tawau | Tawau |
| 117° 46' 31.7" | 4° 27' 10.0" | Sg. Merotai | Tawau |
| 118° 10' 09.6" | 5° 00' 11.4" | Empangan Sepagaya | Lahad Datu |
| 118° 13' 28.0" | 5° 06' 01.2" | Sg. Segama | Lahad Datu |
| 118° 49' 50.8" | 5° 04' 24.5" | Sg. Tungku | Lahad Datu |
| 118° 14' 34.7" | 4° 28' 52.3" | Sg. Kalumpang | Semporna |
| 118° 11' 04.4" | 4° 35' 10.9" | Sg. Kalumpang | Kunak |
| 116° 08' 48.8" | 5° 22' 39.9" | Sg. Liawan | Keningau |
| 116° 10' 01.6" | 5° 26' 18.0" | Sg. Bayayo | Keningau |
| 116° 20' 04.4" | 5° 41' 49.6" | Sg. Tondulu | Tambunan |
| 115° 56' 06.0" | 5° 06' 58.7" | Sg. Padas | Tenom |
| 115° 55' 01.8" | 4° 53' 38.8" | Sg. Padas | Tenom |
| 116° 25' 59.4" | 5° 02' 01.5" | Sg. Panawan | Pensiangan |
| 116° 18' 12.6" | 5° 08' 38.2" | Sg. Sook | Sook |
| 115° 46' 10.9" | 5° 20' 36.2" | Sg. Padas | Beaufort |
| 115° 34' 37.5" | 5° 06' 31.0" | Sg. Lukutan | Sipitang |
| 115° 48' 04.0" | 5° 28' 19.7" | Sg. Membakut | Membakut |
| 116° 48' 04.4" | 6° 56' 20.5" | Empangan Pinangsoo | Kudat |

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 116° 44' 56.6" | 6° 28' 01.1" | Sg. Bandau | Kota Marudu |
| 116° 44' 54.1" | 6° 27' 57.1" | Sg. Pengapunya | Kota Marudu |
| 117° 01' 50.1" | 6° 40' 45.1" | Sg. Bengkoka | Pitas |
| 116° 26' 05.4" | 6° 21' 31.8" | Sg. Tempasuk | Kota Belud |
| 116° 37' 43.4" | 5° 57' 16.1" | Sg. Liwagu | Ranau |
| 117° 06' 00" | 5° 37' 00" | Sg. Maliau | Telupid |
| 116° 59' 00" | 5° 16' 00" | Sg. Milian | Tongod |
| 116° 50' 00" | 5° 12' 00" | Sg. Melikop | Tongod |

(12) The State of Terengganu

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 103° 21' 20" | 4° 40' 40" | Loji Air Bukit Bauk | Dungun |
| 103° 20' 18" | 4° 47' 40" | Loji Air Serdang | Dungun |
| 103° 10' 20" | 4° 49' 10" | Loji Air Tepus | Dungun |
| 103° 19' 10" | 4° 13' 00" | Loji Air Bukit Sah | Kemaman |
| 103° 11' 50" | 4° 06' 35" | Loji Air Cherul | Kemaman |
| 103° 03' 50" | 5° 15' 55" | Loji Air Kepong | Kuala Terengganu |
| 103° 05' 40" | 5° 17' 37" | Loji Air Bukit Losong | Kuala Terengganu |
| 103° 00' 35" | 5° 04' 30" | Loji Air Kuala Berang | Hulu Terengganu |
| 103° 02' 45" | 4° 55' 45" | Loji Air Gunung | Hulu Terengganu |
| 102° 58' 05" | 5° 09' 10" | Loji Air Telemong | Hulu Terengganu |
| 103° 12' 15" | 4° 50' 38" | Loji Air Jerangau | Hulu Terengganu |
| 102° 30' 00" | 5° 38' 05" | Loji Air Bukit Bunga (new and old) | Besut |
| 102° 45' 00" | 5° 05' 00" | Loji Air Pulau Perhentian | Besut |
| 102° 45' 00" | 5° 31' 50" | Sg. Setiu | Setiu |
| 102° 49' 42" | 5° 26' 18" | Sg. Chalok | Setiu |
| 102° 51' 42" | 5° 20' 12" | Sg. Nerus | Setiu |

(13) The State of Negeri Sembilan

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|----------------------------|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 20' 32" | 2° 34' 06" | Empangan Gemencheh | Gemencheh |
| 102° 34' 18.0" | 2° 38' 35" | Sg. Muar | Gemas Baru |
| 102° 32' 21" | 2° 38' 23" | Sg. Muar | Pasir Besar |
| 102° 21' 10" | 2° 40' 14" | Sg. Dangi | Dangi Baru |
| 102° 23' 49" | 2° 36' 16" | Telaga Tiub Bukit Rokan | Bukit Rokan |
| 102° 03' 17" | 2° 39' 40" | Sg. Beringin | Pedas Baru |
| 102° 34' 18" | 2° 38' 59" | Empangan Batu Hampar | Pedas Lama |
| 102° 22' 01" | 2° 43.00' | Sg. Jelai | Felda Kepis |
| 102° 14' 79" | 2° 44' 02" | Sg. Muar | Bukit Pilah |
| 102° 14' 22" | 2° 44' 25" | Sg. Muar | Kuala Pilah |
| 102° 04' 3" | 2° 42' 44" | Sg. Batang Terachi | Ulu Bendul |
| 102° 08' 51.7" | 2° 47' 10" | Empangan Talang/Sg. Muar | Air Talang |
| 102° 24.090' | 2° 44' 24" | Sg. Muar | Kuala Jelai |
| 102° 22' 0.05" | 2° 48' 59" | Sg. Muar | Bahau Baru |
| 102° 22' 24.8" | 2° 47' 59" | Sg. Muar | Jempol |
| 102° 0.1' 26.4" | 2° 48' 14" | Hutan Simpan Berembun | Pantai |
| 101° 55' 04.5" | 2° 56' 06" | Sg. Broga | Broga |
| 101° 59' 43.4" | 2° 45' 31" | Sg. Batang Benar | Terip |
| 101° 00' 14.3" | 2° 45' 33" | Empangan Sg. Terip | Loji Rawatan Air Sg. Terip |
| 102° 14.784' | 2° 44' 25" | Sg. Mahang | Mahang |
| 101° 50.000' | 2° 48' 14" | Sg. Ngoi-Ngoi | Ngoi-Ngoi |
| 102° 56.927 | 2° 36' 12" | Sg. Linggi | Linggi |
| 102° 03' 59" | 02° 56' 13.1" | Sg. Kemin | Kuala Klawang |
| 102° 13' 04.7" | 3° 04' 31" | Sg. Triang | Lakai |
| 102° 06' 40.0" | 3° 04' 02" | Sg. Kenaboi | Felda Titi |
| 102° 13' 36" | 02° 57' 54" | Sg. Pertang | Durian Tawar |

(14) The State of Melaka

| <i>Location of Water Intake</i> | | <i>Name of River/Reservoir/Well</i> | <i>Water Supply Scheme</i> |
|---------------------------------|-------------------------|-------------------------------------|--|
| (1) | | (2) | (3) |
| <i>Longitude (East)</i> | <i>Latitude (North)</i> | | |
| 102° 15' 50" | 2° 17' 55" | Sg. Melaka | Jasin, Melaka Tengah and Alor Gajah |
| 102° 18' 40" | 2° 20' 00" | Empangan Durian Tunggal | Melaka Tengah, Alor Gajah and Jasin |
| 102° 15' 50" | 2° 17' 55" | Sg. Melaka | Melaka Tengah, Alor Gajah and Jasin |
| 102° 15' 25" | 2° 24' 35" | Sg. Batang Melaka | Alor Gajah, Masjid Tanah and Lubuk Cina |
| 102° 29' 12" | 2° 16' 00" | Sg. Kesang | Jasin |
| 102° 28' 15" | 2° 11' 50" | Sg. Kesang | Jasin and Merlimau |
| 102° 22' 15" | 2° 26' 35" | Empangan Jus | Alor Gajah, Masjid Tanah and Lubuk Cina |
| 102° 35' 16" | 2° 24' 23" | Empangan Asahan | Asahan, Simpang, Bekoh, Nyalas and Bukit Senggeh |
| 102° 45' 02" | 2° 12' 10" | Sg. Muar | Melaka Tengah, Alor Gajah and Jasin |

SEVENTH SCHEDULE

(Regulation 12)

ACCEPTABLE CONDITIONS FOR DISCHARGE OF INDUSTRIAL EFFLUENT CONTAINING CHEMICAL OXYGEN DEMAND (COD) FOR SPECIFIC TRADE OR INDUSTRY SECTOR

| (1) | (2) | (3) | (4) |
|------------------------------------|------|----------|----------|
| Trade/Industry | Unit | Standard | Standard |
| | | A | B |
| (a) Pulp and paper industry | | | |
| (i) pulp mill | mg/L | 80 | 350 |
| (ii) paper mill (recycled) | mg/L | 80 | 250 |
| (iii) pulp and paper mill | mg/L | 80 | 300 |

| | | | |
|--|------|-----|-----|
| (b) Textile industry | mg/L | 80 | 250 |
| (c) Fermentation and distillery industry | mg/L | 400 | 400 |
| (d) Other industries | mg/L | 80 | 200 |

EIGHTH SCHEDULE

(Regulation 13)

ACCEPTABLE CONDITIONS FOR DISCHARGE OF MIXED EFFLUENT
CONTAINING CHEMICAL OXYGEN DEMAND (COD)

| (1) | (2) | (3) |
|------|----------|----------|
| Unit | Standard | Standard |
| | A | B |
| mg/L | 80 | 200 |

NINTH SCHEDULE

(Regulation 14)

LIST OF PARAMETERS FOR DISCHARGE OF INDUSTRIAL EFFLUENT OR MIXED
EFFLUENT WHICH BEST MANAGEMENT PRACTICE TO BE ADOPTED

- (i) Nitrate Nitrogen
- (ii) Sulphate
- (iii) Chloride
- (iv) Cobalt
- (v) Detergent, Anionic
- (vi) Molybdenum
- (vii) Phosphate (as P)
- (viii) Polychlorinated Biphenyls
- (ix) Beryllium
- (x) Vanadium
- (xi) Pesticides, fungicides, herbicides, rodenticides, fumigants or any other biocides or any other chlorinated hydrocarbons
- (xii) Any substance that either by itself or in combination or by reaction with other waste may give rise to any gas, fume or odour or substance which causes or is likely to cause pollution
- (xiii) Total Organic Carbon
- (xiv) Whole Effluent Toxicity (WET)
- (xv) Dioxin
- (xvi) Endocrine disruptors

TENTH SCHEDULE

[Subregulation 7(2)]

MONTHLY INDUSTRIAL EFFLUENT OR MIXED EFFLUENT DISCHARGE MONITORING REPORT

SECTION I

IDENTIFICATION

1. (i) Name and address of premises:

.....
.....

Telephone number:.....Fax number:.....

(ii) File reference number (if applicable):

2. (i) Name and address of accredited analytical laboratory:

.....
.....

Telephone number:.....Fax number:.....

(ii) Name of analyst:

.....

3. (i) Reporting year:.....

(ii) Reporting month:

SECTION II

INFORMATION ON INDUSTRIAL EFFLUENT OR MIXED EFFLUENT

4. (i) Flowrate*

Minimum:..... m³/d, Maximum:..... m³/d

(ii) Quality of effluent discharged (unit in mg/L)

| Parameter*** | First Week Date: | Second Week Date: | Third Week Date: | Fourth Week Date: |
|--------------------------|---------------------|----------------------|---------------------|----------------------|
| Temperature | | | | |
| pH Value | | | | |
| BOD ₅ at 20°C | | | | |
| COD | | | | |
| Suspended Solids | | | | |
| Mercury | | | | |
| Cadmium | | | | |

| Parameter*** | First Week Date: | Second Week Date: | Third Week Date: | Fourth Week Date: |
|--------------------------------------|---------------------|----------------------|---------------------|----------------------|
| Chromium, Hexavalent | | | | |
| Arsenic | | | | |
| Cyanide | | | | |
| Lead | | | | |
| Chromium, Trivalent | | | | |
| Copper | | | | |
| Manganese | | | | |
| Nickel | | | | |
| Tin | | | | |
| Zinc | | | | |
| Boron | | | | |
| Iron | | | | |
| Silver | | | | |
| Aluminium | | | | |
| Selenium | | | | |
| Barium | | | | |
| Fluoride | | | | |
| Formaldehyde | | | | |
| Phenol | | | | |
| Free Chlorine | | | | |
| Sulphide | | | | |
| Oil and Grease (n-hexane extract) | | | | |
| Ammoniacal Nitrogen | | | | |
| Colour** | | | | |

* The flowrate and concentration of industrial effluent or mixed effluent at the point of discharge as determined in accordance with the sampling procedure and method of analysis as specified in regulation 16.

** ADMI unit

*** Choose only the significant parameters

SECTION III

DECLARATION

I,hereby declare that all information given in this form is to the best of my knowledge and belief true and correct.

Signature of responsible person:

.....

Name:

Designation:

Date :

(Affix official seal or stamp of the company)

ELEVENTH SCHEDULE

[Subregulation 17(1)]

SPECIFICATIONS OF POINT OF DISCHARGE OF INDUSTRIAL EFFLUENT OR MIXED EFFLUENT

1. The discharge point is located within the boundary of the premises, immediately after the final unit operation or unit process of the industrial effluent treatment system.
2. The location of the discharge point is easily accessible and does not pose any safety hazards to personnel performing site inspection or effluent sampling.
3. The industrial effluent or mixed effluent is discharged through a pipe, conduit or channel to facilitate effluent sampling.
4. The discharge point is physically identified by installing a metal identification sign which reads "Final Discharge Point".
5. The discharge point and its surrounding are properly maintained to be free from any obstruction that may pose difficulty or hazards during site inspection or effluent sampling.

TWELFTH SCHEDULE

[Subregulation 30(1)]

LIST OF UNDESIRABLE OCCURRENCES

1. Pollution cases that seriously threaten the environment or public health and safety which warrant immediate halt.

2. Premises that experience industrial disaster such as fire, explosion and the like which may pose serious risk to the environment or the public in the vicinity.
3. Serious environmental pollution which gives rise to frequent complaints and upon investigation, the complaints are found to be justified and the premises are flouting the directives of the Director General.
4. Premises which frequently commit similar offences despite having been subject to various legal actions by the Director General such as notices, directives, compounds or court action.
5. Pollution cases which cause serious negative impacts to aquatic life and there is evidence indicating that the premises do not make sufficient effort to overcome the pollution problems.
6. Serious environmental pollution with wide coverage in the mass media and there is evidence indicating that the pollution occurred as a result of absence, non-operation or malfunctioning of industrial effluent treatment system in the premises.
7. Premises which discharge untreated or partially treated industrial effluent or mixed effluent or which discharge industrial effluent or mixed effluent through a by-pass and based on measurements or analysis of industrial effluent or mixed effluent quality using *in-situ* methods, there is evidence indicating that the industrial effluent or mixed effluent is grossly non-compliant.

THIRTEENTH SCHEDULE

[Subregulation 31(1)]

METHOD OF COMPUTING EFFLUENT-RELATED LICENCE FEE

| Parameter | Fee per kg of contaminant discharged into inland waters as specified in paragraph 11(1)(a) | Fee per kg of contaminant discharged onto any soil or into other inland waters |
|------------------------------|--|--|
| (i) BOD ₅ at 20°C | RM 0.50 | RM 0.05 |
| (ii) Mercury | RM 2500.00 | RM 250.00 |
| (iii) Cadmium | RM 2500.00 | RM 250.00 |
| (iv) Chromium, Hexavalent | RM 2500.00 | RM 250.00 |
| (v) Chromium, Trivalent | RM 2500.00 | RM 250.00 |
| (vi) Arsenic | RM 2500.00 | RM 250.00 |
| (vii) Cyanide | RM 2500.00 | RM 250.00 |
| (viii) Lead | RM 2500.00 | RM 250.00 |
| (ix) Copper | RM 2500.00 | RM 250.00 |
| (x) Manganese | RM 2500.00 | RM 250.00 |
| (xi) Nickel | RM 2500.00 | RM 250.00 |
| (xii) Tin | RM 2500.00 | RM 250.00 |
| (xiii) Silver | RM 2500.00 | RM 250.00 |

| Parameter | Fee per kg of contaminant discharged into inland waters as specified in paragraph 11(1)(a) | Fee per kg of contaminant discharged onto any soil or into other inland waters |
|--|--|--|
| (xiv) Selenium | RM 2500.00 | RM 250.00 |
| (xv) Barium | RM 2500.00 | RM 250.00 |
| (xvi) Fluoride | RM 2500.00 | RM 250.00 |
| (xvii) Formaldehyde | RM 2500.00 | RM 250.00 |
| (xviii) Zinc | RM 2500.00 | RM 250.00 |
| (xix) Boron | RM 500.00 | RM 50.00 |
| (xx) Iron | RM 500.00 | RM 50.00 |
| (xxi) Phenol | RM 500.00 | RM 50.00 |
| (xxii) Sulfide | RM 500.00 | RM 50.00 |
| (xxiii) Oil and Grease (n-hexane extract) | RM 500.00 | RM 50.00 |
| (xiv) Ammoniacal Nitrogen | RM 500.00 | RM 50.00 |

Made 12 October 2009
[AS(S) 91/110/919/026; PN(PU²)280/XII]

DATUK DOUGLAS UGGAH EMBAS
Minister of Natural Resources and the Environment

Hakcipta Pencetak (H)

PERCETAKAN NASIONAL MALAYSIA BERHAD

Semua Hak Terpelihara. Tiada mana-mana bahagian jua daripada penerbitan ini boleh diterbitkan semula atau disimpan di dalam bentuk yang boleh diperolehi semula atau disiarkan dalam sebarang bentuk dengan apa jua cara elektronik, mekanikal, fotokopi, rakaman dan/atau sebaliknya tanpa mendapat izin daripada Percetakan Nasional Malaysia Berhad (Pencetak kepada Kerajaan Malaysia yang dilantik).



DICETAK OLEH
PERCETAKAN NASIONAL MALAYSIA BERHAD,
KUALA LUMPUR
BAGI PIHAK DAN DENGAN PERINTAH KERAJAAN MALAYSIA