

Active, Beautiful, Clean Waters Programme



Certified Projects
(Year 2010 to 2024)

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2019 – 2021 Certified Projects

1. [Gold Certified] Jurong Lake Gardens, Lakeside Garden by National Parks Board

Lakeside Garden revolves around the themes of nature, play and the community. The extensive water frontage within Jurong Lake Gardens create spaces for the community to enjoy nature while having fun. There are scenic boardwalks, water playground, viewing decks, promenade plaza, bird hides and a park connector to bring people closer to water. Round Island Route (RIR) within Lakeside Garden serves as a main link between north to south.

Runoff from 86% of the entire site area is conveyed and treated via vegetated swales, gravel swales and a 3-tiered cleansing biotope before it is channelled to Jurong Lake. Water treated by the cleansing biotope was further treated and used in the water playground.



2. [Gold Certified] Keppel Marina East Desalination Plant by Marina East Water Ptd Ltd

The Marina East Desalination Plant, designed to be able to treat either seawater or reservoir water to produce potable water, is the first industrial plant with extensive green and water features that are opened to public access. The project has an integrated sustainable stormwater management system, where stormwater runoff from the extensive green roof (equivalent to 65% of the total site area) flows into bioretention basins and later collects in a rainwater harvesting pond. The water collected is recycled in water features and used for irrigation.

It is a site for visitors of the nearby park with its large lawn area on green roof and cascading water features that circulates water from the rainwater harvesting pond. Formal seating and walkway are provided along the bioretention basins on the green roof also bring people closer to the features.



3. **[Gold Certified]** Yunnan Garden at NTU by Office of Development & Facilities Management, Nanyang Technological University

The Yunnan Garden is a scenic park in the middle of NTU which adopted a water sensitive or ABC Waters design approach in its design. Sedimentation basin and living stream of wetlands filled with rich flora and fauna were incorporated to solve the high-water table and ponding issue. Rain gardens and cleansing biotopes were also incorporated to treat the runoff from pedestrian promenade and Nanyang Lake respectively prior to releasing the water back to the open canal.

An extensive array of elevated boardwalks integrated with ABC Waters design features enable visitors to get close to the water features at various elevations. Walkway promenade and pavilions, look-out/resting decks were strategically located to enhance visitors' experience.



4. **Alkaff Vista** by the Housing & Development Board

The public housing development at Bidadari Park Drive comprises of residential buildings and common green with roof terrace gardens at 2 of the blocks and a roof garden at the Multi-Storey Car Park (MSCP). With the implementation of ABC Waters design features, runoff from 19.4% of the entire site area is channelled to the rain gardens and vegetated swale for treatment.

Extensive green roof on top of the MSCP and vertical greenery with climbers provided at the trellis/shelters in common green and MSCP add to the lushness of the area and enhance the living environment of the residents. Linkway, shelters with seats, fitness area, playground and bicycle parking are located near to the ABC Waters design features that brings residents and visitors closer to the features.



5. Clementi NorthArc by the Housing & Development Board

The public housing development comprising of residential buildings with e-deck is located next to the park connector along Sungei Ulu Pandan.

Detention and treatment of runoff from 11.5% of the total site area by bioretention basins. Rainwater feature, multi-purpose court, badminton court, paved gathering space and walkway are located near the bioretention basins to bring people closer to the features. In addition, roof gardens, extensive green roofs and e-decks beautify the precinct and allow people to enjoy the greenery.



6. Hundred Palms Residences by Hoi Hup Hougang Development Pte Ltd

Hundred Palms is an Executive Condominium at Yio Chu Kang area with 9 blocks of 15-storey residential units with ancillary facilities and greenery integrated with ABC Waters design features.

Detention and treatment of runoff from 6.7% of the total site area is treated by the ABC Waters design features. Bioretention basins form part of the development landscape. Timber boardwalk, pavilions, yoga decks and reflexology path are located near the bioretention basins to bring people closer to the features. Green walls at multi-purpose recreational court, drop-off and driveway planters beautify the precinct with 50% of the plants used being native species.



7. JTC Woodlands North Coast (1 North Coast) by JTC

This project is a light industrial development at North Coast Avenue with basement carpark, shops, restaurants, and offices.

Runoff from 12.3% of the entire site area will be channelled to rain gardens for treatment. To bring people closer to the ABC Waters design features, there is a boardwalk and seating areas. Façade planting, sky gardens/terrace and roof garden are also provided to beautify the precinct. 24.6% of all plant species used in the whole development are species native to Singapore.



8. JTC Woodlands North Coast (7 North Coast) by JTC

This project is a light industrial development at North Coast Avenue with basement carpark, shops, restaurants, and offices.

Runoff from 12.3% of the entire site area will be channelled to rain gardens for treatment. To bring people closer to the ABC Waters design features, there is a boardwalk and seating areas. Façade planting, sky gardens/terrace and roof garden are also provided to beautify the precinct. 24.6% of all plant species used in the whole development are species native to Singapore.



9. Jurong West Jewel by the Housing & Development Board

Jurong West Jewel is a public housing development comprising of residential buildings, Multi-Storey Car Park (MSCP), intensive green roof on top of MSCP and extensive green roof on one of the blocks to beautify the precinct. Vertical greeneries at the façade of MSCP add to the lushness of the area.

Fitness area, play area, walkway and seating facilities are provided around the ABC Waters design features to bring people closer to the features. MSCP also provides a vantage point for the ABC Waters design features. Runoff from 30.2% of the entire site area will be channelled to the rain garden and vegetated swales for treatment.



10. Matilda Sundeck by the Housing & Development Board

Matilda Sundeck is a public housing development project comprising of residential buildings, carpark with Precinct Pavilion and Social Communal Facilities).

Rain gardens are located in the vicinity of Residents Committee Centre, Precinct Pavilion and pedestrian footpath where residents and visitors can enjoy the community spaces and a get a closer view of the feature. Lush roof garden with amenities provides communal space and environmental benefits. Green terraces also add to the liveability of the precinct.



11. NUS SDE4 by National University of Singapore

The SDE4 is a new building for the School of Design and Environment in NUS to serve as the hub for integrating education, from design to implementation. Bioretention basins, arranged in series and anchored at each end by 2 feature ponds, have sizable plaza spaces with seats around them that brings students and visitors closer to the features. Terrace garden enhances the visual experience and climbing plants in planter boxes droop down along the green alley add to the lush view.

Treatment of runoff from 21.2% of the total site area by bioretention basins and 2 ponds. 45.5% of the plants used in the development are native species. Educational signage at different locations are provided to promote greater awareness of the bioretention basins. Innovative features include drip irrigation system for water conservation, special inlet structure to the rain gardens breaking the momentum of incoming water while creating an interesting water feature.



12. Rivercove Residences by Hoi Hup Sunway Sengkang Pte Ltd

Rivercove Residences is an executive condominium at Anchorvale Lane. The project, sited along Sungei Punggol, sits at a cove of the river and is adjacent to the park connector. Rain gardens, lushly planted shrubs and greenery are located around the e-deck boundary. Planters around water features and pools increase biodiversity in the vicinity. Green roof at bin centre, gym and clubhouse and creepers around edge of e-deck also beautify the development.

51% of all the plant species used in the development are native species. Activity lawn, gourmet pavilion, kid's playground, gardener's pavilion, community garden and hydrotherapy pool are located near to the rain gardens to bring people closer to the features. The project treats runoff from 5.7% of the total site area by rain gardens.



13. SkyOasis @ Dawson by the Housing & Development Board

This public housing development comprises of residential buildings, Multi-Storey Car Park (MSCP), shops, mini-mart, community facilities, eating house, and Precinct Pavilions. ABC Waters design features treat runoff from 4.5% of the total site area. Precinct Pavilion boardwalk and seats bring residents and visitors closer to the bioretention basin located within the precinct. Direct link to Alexandra Canal Park Connector also facilitates people to get closer to the canal. Extensive green roof at Precinct Pavilion and sky terraces at 14th and 35th storeys beautify the precinct. Roof gardens at MSCP and Future Social Communal Facilities (FSCF) as well as vertical green at MSCP allow people to enjoy the greenery.



14. Waterway View by the Housing & Development Board

Waterway View is a public housing development comprising of residential buildings, Multi-Storey Car Park (MSCP), Precinct Pavilion and Communal Facilities. Precinct Pavilions, playgrounds/fitness stations and footpath are located close to the ABC Waters design features. Intensive roof garden spaces are provided at the residential blocks and MSCP.

Treatment of runoff from 17.4% of the total site area by bioretention swales and vegetated swales while 19.7% of all the plant species used in the whole development are native species.



15. Yusof Ishak Secondary School by Ministry of Education

Yusof Ishak Secondary School is an education institution that consists of a classroom block, Multi-Purpose Hall (MPH) block and an admin and canteen block. Extensive and lush bioretention basin (planted with 6 plants species) enhances biodiversity by providing habitats for butterflies and dragonflies. Educational signages are provided for students to learn more about the bioretention basin and plants species that are planted in the feature. Seating space on steps are provided along 4 sides of the bioretention basin while football field, jogging track and canteen are located near to it to bring student and staff closer to the feature.

In this project, treatment of runoff from 13.4% of the entire site area by the bioretention basin. Rainwater harvesting tanks with drip irrigation system are used for water conservation.



2021 – 2022 Certified Projects

1. [Gold Certified] SIT Campus @ Punggol North (West Zone)

The Singapore Institute of Technology (SIT) is designed to be a “Campus- in-the park”. Extensive green and blue features within the West zone campus are open to public access.

Treatment runoff from 43.1% of the entire site is treated by a cleansing biotope and rain gardens. Water from the rain gardens is harvested and used for irrigation purposes, while water from the cleansing biotope is recirculated through an eco-pond that creates more blue spaces and beautifies the campus.

ABC Waters design features are seamlessly integrated within the lush greenery in the campus. A garden courtyard and sky garden are provided to beautify the environment and enhance visitor experience. Elevated boardwalks and seats are provided to allow visitors to get close to the ABC Waters design features. 37% of plant species used in the whole development will be native species. Innovative features include drip irrigation system for water conservation.



2. [Gold Certified] SIT Campus @ Punggol North (East Zone)

The Singapore Institute of Technology (SIT) Campus is a new smart campus. The first of its kind, SIT is designed to be a “Campus-in-the-Park”, aptly complementing the campus’ location by the Punggol Waterway Park and Serangoon Reservoir. The East zone campus will be home to administration buildings and indoor sports facilities.

Treatment runoff from 40.1% of the entire site area by rain garden, cleansing biotopes and a sedimentation pond. Drains along the main pedestrian are naturalized to channel runoff and enhance the overall landscape. ABC Waters design features will be seamlessly integrated within the lush greenery in the campus. Pedestrian bridge, boardwalk, viewing deck and seats allow the visitors

to get close to the ABC Waters design features. 55% of plant species used in the whole development are native species. Innovative features include drip irrigation system for water conservation.



3. **[Gold Certified]** The Woodleigh Residences and The Woodleigh Mall

The Woodleigh Residences and The Woodleigh Mall is a mixed-use commercial and residential development located in the new Bidadari Town. Lush greenery is integrated with the communal and lifestyle facilities to create a tranquil urban oasis.

Treatment runoff from 50.5% of the entire site area by rain gardens spread across the developments. More than 80 rain gardens are provided throughout the development. Rain gardens are distributed across the development and located next to facilities like pool decks, yoga pavilion and playgrounds and BBQ pits to allow the residents to get close to features. 23% of plant species used in the whole development are native species. Innovative fast flow siphonic roof drainage system and drip irrigation are used in the development.



4. Alkaff Oasis

Alkaff Oasis is a public housing development located at the junction of Bidadari Park Drive and Alkaff Crescent. The development consists of residential buildings, roof gardens at two multi-storey carparks (MSCP) and a linear greenery between the MSCPs.

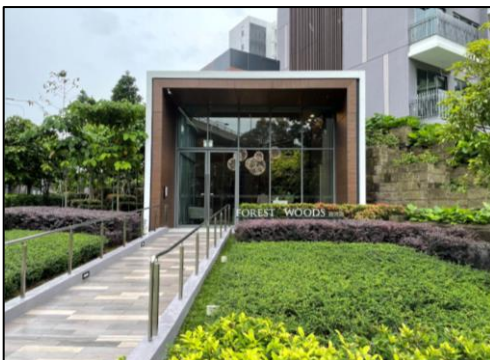
Treatment runoff from 10.7% of the entire site area is treated by rain gardens. The rain gardens form part of the development landscape. Seats are provided near the rain gardens to bring the residents and visitor closer to the ABC Waters features. Roof gardens, linear greenery between the MSCPs, façade planting, and extensive green roofs on the pavilion and covered linkway are provided to beautify the precinct. 28% of plant species used in the whole development are native species Innovative Soilless GaiaMat™ system is used in the extensive green roof and drip irrigation system is used to conserve water.



5. Forest Woods

Forest Woods is a private residential development located at Lorong Liew Lian with a commitment to sustainable architecture. Runoff from 11.1% of the entire site area is treated by 3 rain gardens. Footpaths, BBQ pavilions and alfresco lounge, located next to the rain gardens, bring residents and visitors close to the ABC Waters design features.

A Bio-Pond is provided to create more blue spaces to encourage residents and visitors to come closer to the water. Vertical greenery at the landscape wall, sensory gardens with a variety of flowers add to the overall greenery and enhance the aesthetic within the development. 37.5% of plant species used in the whole development are native species.



6. Kallang Breeze

Kallang Breeze is a public housing development that consists of residential buildings and a roof garden at the multi-storey carpark (MSCP).

Runoff from 27% of the entire site area will be treated by rain gardens. A roof garden and vertical greenery façade planters will be provided at the multi-story carpark block add to the overall greenery within the development. 21.5% of plant species used in the whole development will be native species. Drip irrigation system will be provided to reduce water consumption.



7. Parc Canberra

Parc Canberra is an Executive Condominium development located at Sembawang Link. Runoff from 12.1% of the entire site area will be treated by rain gardens in the development. A pavilion and community garden will be located next to the rain gardens to bring residents and visitor close to the ABC Waters features. 32% of plant species used in the whole development will be native species. Drip irrigation system will be provided to reduce water consumption.



8. The M

Located along Middle Road, The M is a private residential development that incorporates 3 rain gardens in order to detain and treat runoff from 13% of the total site area. Footpaths, viewing deck with seating areas, reading deck, lounge and gardens are provided to bring people closer to the ABC Waters design features. 2 educational signages are provided to promote greater awareness on the ABC Waters design features.

Further greening of The M is achieved by the e-deck, a Sky Terrace, trailing creepers on the buildings' façade and a green roof on the Clubhouse. 34 % or 41 species of native plants are used to enhance biodiversity in the development.



9. Toa Payoh Ridge

The public housing development, Toa Payoh Ridge, consists of residential buildings and a multi-story carpark with green roof. Runoff from 35.3% of the entire site area will be conveyed to and treated by rain gardens and bioretention swales. Playgrounds, outdoor fitness area, mini plaza, shelters and footpaths located near to the ABC Waters design features bring residents and visitors closer to the features.

Gravel swales will be used in lieu of traditional concrete drains to convey rainwater runoff and add to the overall greenery within the development. 22.1% of plant species used in the whole development will be native species.



10. Waterfront I @ Northshore

Waterfront I @ Northshore (Punggol) is a public housing development along the seafront and next to the Punggol Park Connector Network. The development consists of residential buildings, eco-pond within the common green next to the development. Runoff from 10.9% of the entire site area is conveyed to and treated by bioretention swales, vegetated swales and rain garden.

Footpaths, a birdwatch plaza, fitness corners and playground are provided to bring the residents and visitors closer to the ABC Waters design features. Vertical greenery, sky gardens, green roofs at Childcare Centre and Active Aging Hub add to the overall greenery within the development. 29.3% of plant species used in the whole development are native species.



11. Waterfront II @ Northshore

Waterfront II @ Northshore (Punggol) is a public housing development along the seafront and next to the Punggol Park Connector Network. The development consists of residential buildings and a landscaped pond (Dragonfly Pond) within the common green. Runoff from 11.2% of the entire site area is conveyed to and treated by bioretention swales and rain garden.

Part of the water from the ABC Waters design features is channeled into the Dragonfly Pond to create more blue spaces for the residents and visitors. Pedestrian pathways are provided to bring the residents and visitors close to the ABC Waters design features. Vertical greenery, sky gardens, green roof at Electrical Sub-station and Education Centre add to the overall greenery within the development. 29.8% of plant species used in the whole development are native species.



12. West Scape @ Bukit Batok

West Scape @ Bukit Batok is a public housing development that consists of residential buildings and a Biodiversity Corridor within the precinct to bring residents closer to nature. Runoff from 15.3% of the entire site area will be conveyed to and treated by bioretention swales, vegetated swales and rain gardens.

A biodiversity corridor within the precinct, roof Garden and façade planting at multi-story carpark add the overall greenery within the development. 28% of plant species used in the whole development are native species.



2022 – 2024 Certified Projects

1. [Gold Certified] Parc Clover @ Tengah

Parc Clover @ Tengah is a public housing development located at Tengeh Drive in the Forest Town of Tengah that features green, sustainable features and community-centric spaces. The runoff from 48% of the 5-hectare site area is channelled into 17 lushly planted rain gardens spread across the development. Rain gardens filter runoff through densely planted surface vegetation as a means of pre-treatment before percolating the runoff through a prescribed filter media. During percolation, pollutants are removed through fine filtration, adsorption and some biological uptake.

Playgrounds, fitness corner, viewing platforms with seating areas and footpaths are provided to bring residents and visitors closer to the ABC Waters design features.

7 educational signages are provided to educate the residents and visitors on how rainwater runoff is treated by ABC Waters design features. Rooftop gardens and vertical greenery façade planters provided at the multi-storey carpark add to the overall greenery within the development.



2. [Gold Certified] Garden Terrace @ Tengah

Garden Terrace @ Tengah is a public housing development located within the Garden District in Forest Town of Tengah. There are 16 rain gardens and 1 vegetated swale in a 3.3-hectare site area. Facilities like sheltered walkways, playgrounds, fitness stations, community living space and footpaths are located near to the ABC Waters design features to allow the residents and visitors to get close to the features. 10 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features.

Façade planting at the multi-storey carpark, green roofs, intensive and extensive roof gardens are provided to beautify the precinct. 43% of plant species used in the whole development are native species. Treatment of harvested rainwater using

membrane technology (ultrafiltration system) and drip irrigation system is provided to reduce water consumption.



3. **[Gold Certified]** Parc Residences @ Tengah

Parc Residences @ Tengah is a 6.4-hectare public housing development nestled between the Forest Fringe and Plantation Farmway, bounded by Tengah Park Avenue and Tengah Drive. Within Parc Residences @ Tengah is a neighborhood centre housing a polyclinic, supermarket and shops. The development also comes with community facilities, precinct pavilions and a common green accessible by the public.

Runoff from 45% of the entire site area is treated by 16 rain gardens. Playgrounds, fitness corner, seating corners and outdoor plaza are provided to bring residents and visitors closer to the ABC Waters design features. 5 educational signages are provided to educate the residents and visitors on how rainwater runoff is treated by ABC Waters design feature naturally. Information about ABC Waters features was shared on HDB website about Tengah New Town which is themed as “Live Well, Live Green and Live Connected” at Tengah.

Rooftop gardens, green roofs and green terraces at the blocks and multi-storey carpark provide a varied landscape experience and enhance the overall greenery in the development. 33% of plant species used in the whole development are native species. Treatment of harvested rainwater using membrane technology (ultrafiltration system) for irrigation via drip irrigation system and block washing is provided to reduce the consumption of water.



4. **[Gold Certified] Garden Court @ Tengah**

Garden Court @ Tengah is a public housing development located within the Garden District in the forest town of Tengah. Runoff from 64% of the 4.6-hectare site area is conveyed to and treated by 27 rain gardens, 1 bioretention lawn and 2 vegetated swales. Sheltered walkways, playgrounds, fitness stations, community living space and community farming located near to the ABC Waters design features bring residents and visitors closer to the features.

10 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features. Vegetated swales with cascading waterfall, façade planting, green roofs, intensive and extensive roof gardens are provided to beautify the precinct. 32% of plant species used in the whole development are native species.



5. **Shaw Tower**

Shaw Tower is a commercial development undergoing redevelopment. Runoff from 24% of the entire site area of 0.6 hectare is treated by terraced rain gardens on level 4 and level 5. Viewing decks and seating areas are provided to bring people closer to the ABC Waters design features. 2 educational signages are provided to educate the residents and visitors on how rainwater runoff is treated by ABC Waters design features.

Vertical greenery, sky gardens and sky terraces add to the overall greenery within the development. 38% of plant species used in the whole development are native species. Drip irrigation system is provided to reduce water consumption.



6. Tampines GreenGlade

The public housing development, Tampines GreenGlade, consists of residential buildings and a multi-storey carpark (MSCP) with roof garden is located at Tampines Street 64 & Tampines North Drive 1. Runoff from 18% of the entire 1.8-hectare site area is conveyed to and treated by 3 rain gardens and 6 vegetated swales.

Shelters and open plaza located near to the ABC Waters design features bring residents and visitors closer to the features. 6 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features. Vertical greenery, roof garden and sky terraces add to the lushness of the area and enhance the living environment of the residents. 11% of plant species used in the whole development are native species. Auto irrigation system for planters at MSCP is provided to reduce water consumption.



7. Keat Hong Verge

Keat Hong Verge is a public housing development located at Keat Hong Link. Runoff from 27% of the entire 1.6-hectare site area is treated by 6 rain gardens. Playground, fitness stations, seating space and footpaths located near to the ABC Waters design features bring residents and visitors closer to the features. 2 educational signages are provided to promote greater awareness of the rain gardens.

Facade planters and roof garden at MSCP, sky garden and extensive green roof system add to the overall greenery within the development. 24% of plant species used in the whole development are native species. Drip irrigation system is provided to reduce water consumption.



8. Midtown Modern

The Midtown Modern is a residential development with commercial at 1st storey located at Tan Quee Lan Street. Runoff from 29% of the 1.2-hectare site area is conveyed to and treated by 6 rain gardens and 1 vegetated swale.

Facilities like gym, tennis court, boardwalks and swimming pool are near the ABC Waters design features to bring residents and visitors closer to them. 3 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features.

The landscape design themed 'Gardens in the Woods' adopted the metaphor of an upward exploration into the mountains. The retreat into nature takes one from the cavern grotto at the arrival lounge, to a lush plateau on the third storey and finally to the mountain peak at the rooftop gardens.

42% of plant species used in the whole development are native species. Ultrafiltration system is used to treat harvested rainwater for irrigation use and drip irrigation system is provided to reduce water consumption.



9. Woodleigh Glen

Woodleigh Glen is a public housing development located at the junction of Upper Serangoon Road and Woodleigh Link. Runoff from 25% of the 4.5-hectare site area is conveyed to and treated by 25 rain gardens, 7 bioretention lawns and 7 vegetated swales.

Link bridge to MSCP roof garden, timber deck walk, shade structure with seating and footpaths located near to the ABC Waters design features bring residents and

visitors closer to the features. 7 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features.

Extensive rooftop gardens with naturalised water channels leading to the rain gardens are provided to add to the overall greenery within the development. Bioretention lawns double up as recreational spaces when they are dry. 23% of plant species used in the whole development are native species. Drip irrigation system is provided to reduce water consumption.



10. Kim Keat Beacon

Kim Keat Beacon is a public housing development located at Kim Keat Avenue. Runoff from 27% of the 2.4-hectare site area is conveyed to and treated by 8 rain gardens (including submerged rain gardens), 4 bioretention swales and 3 vegetated swales.

Playgrounds, fitness area, footpaths and shelter with seating located near to the ABC Waters design features bring residents and visitors closer to the features. 3 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features.

Roof gardens and green roofs with runoff channeling to the ABC Waters design features are provided to add to the overall greenery within the development. 18% of plant species used in the whole development are native species. Drip irrigation system is provided to reduce water consumption.



11. Surbana Jurong Campus

Situated within the vibrant Jurong Innovation District and overlooking the picturesque Jurong Eco-Garden, the Surbana Jurong Campus stands as a testament to seamless integration with its natural surroundings. Runoff from 20% of the 2.6-hectare site area is conveyed to and treated by rain gardens and vegetated swales.

Visitors are drawn closer to the ABC Waters design features through strategically placed timber boardwalks and footpaths, fostering a deeper connection with nature. 2 educational signages are provided to educate the visitors on the concept of the ABC Waters design features, complemented by creatively designed drain covers advocating for the preservation of waterways.

Featuring an array of sustainable amenities, including an intensive green roof, indoor gardens, sunken courtyards, and swales. The campus amplifies its green footprint, promoting environmental stewardship. 35% of native plant species are used to enhance biodiversity. Drip irrigation system is seamlessly integrated to curtail water consumption.



12. Ubi Grove

Ubi Grove is a public housing development located in Geylang, bounded by Ubi Avenue 1, Ubi Avenue 2 and Ubi Road 3. The 12 residential blocks are arranged into three clusters with a sizable linear open green space within each cluster and with a 0.4-hectare park fronting Ubi Ave 2. Runoff from 13% of the 6.6-hectare site area is treated by 12 rain gardens.

Fitness corners, Lowing Tree Garden, playground, covered linkway, footpath and trellis with seating area located near to the ABC Waters design features bring residents and visitors closer to the features. 12 educational signages are provided to promote greater awareness of the rain gardens.

MSCP roof gardens, trailing creepers, themed gardens with lush greenery enhance the aesthetics of the development. 41% of plant species used in the whole development are native species.



13. Northshore Edge

Northshore Edge is a public housing development located in Punggol Northshore District, consisting of 3 residential blocks, a roof garden at the multi-storey carpark (MSCP) and other amenities on a tight site. Runoff from 11% of the 1.9-hectare site area is conveyed to and treated by 2 rain gardens and 2 vegetated swales as well as bioretention planters on the roof of MSCP.

Rain gardens and vegetated swales on the ground floor are situated near sheltered walkways and seating spaces, playgrounds and fitness stations to bring people closer to the ABC Waters design features. Rain gardens are also integrated as planter boxes along the MSCP façade to add to the overall greenery of the development. 38% of plant species used in the whole development are native species.

Intensive green roof with a community garden and activity lawn are provided at Level 5 and 7 of the residential blocks for residents' enjoyment. 2 educational signages are provided to promote greater awareness of the ABC Waters design features. Drip irrigation system is provided to reduce water consumption. Rain sensor and moisture sensor are also installed to ensure efficient water usage.



14. Tampines Green Court

Tampines Green Court is a public housing development with residential blocks, commercial facilities, precinct amenities and communal facilities located at Tampines North Drive 2. Runoff from 12% of the 4.8-hectare site area is conveyed to and treated by 12 rain gardens, a bioretention swale and 7 vegetation swales.

Precinct pavilions and reflexology footpaths in sensory gardens are located next to the rain gardens and vegetated swales, bringing people closer to the ABC Waters design features. 2 educational signages are provided to promote greater awareness of the ABC Waters design features.

Sky gardens, rooftop gardens, green roofs and edge shrub plantings as green façade add to the overall greenery of the development. 27% of plant species used in the whole development are native species. Drip irrigation system is provided to reduce water consumption.

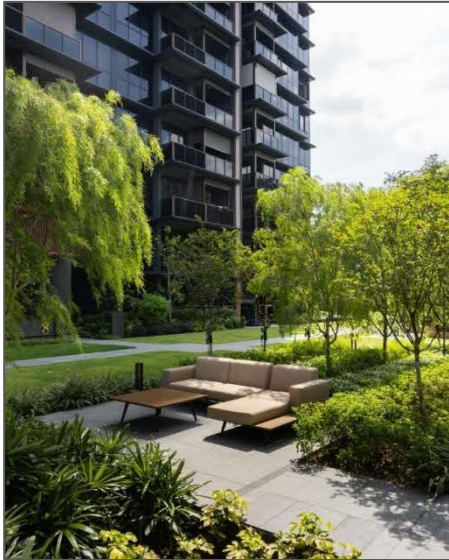


15. Kopar at Newton

Kopar at Newton, located at the junction of Bukit Timah Road, Kampong Java Road, Makeway Avenue that is a private residential condominium designed to be sustainable, environmentally friendly and with energy-efficient technology. Runoff from 14% of the 1.2-hectare site area is treated by 9 rain gardens. The treated water is channeled to on-site detention tanks for controlled discharge. The rain gardens are located near the tennis court, outdoor lounge area, restrooms, swimming pool, and Club House, bringing people closer to the ABC Waters design feature.

3 educational signages are provided to promote greater awareness of the ABC Waters design features. Green roofs are located on the drop-off entrance area, Club House, and restrooms providing visually pleasing roof surfaces.

Vertical greenery is planted on the fences around the tennis court, adding to the overall greenery of the development. 38% of plant species used in the whole development are native species. Drip irrigation system at green roofs and building perimeter is provided to reduce water consumption.



16. Woodleigh Village

Woodleigh Village is an integrated development located at the junction of Upper Serangoon Road / Woodleigh Link, next to Woodleigh MRT Station. The development consists of residential blocks, communal facilities, Hawker Centre and Bus Interchange. Runoff from 26% of the 2.6-hectare site area is treated by 6 rain gardens.

The rain gardens are seamlessly integrated with landscape gardens adjacent to walkways and Precinct Pavilion at 1st storey, as well as the landscape garden at 3rd storey above the MSCP, which is surrounded by communal facilities, bringing the community closer to water. 3 educational signages are provided to promote greater awareness of the ABC Waters design features.

A metal roof above the communal facilities at 3rd storey is designed with extensive green roof that reduces heat gain and aesthetically pleasing while slowing down rainwater run-off to one of the rain garden.

The community garden at the 3rd storey and a courtyard garden at the 1st storey drop-off porch are planted with shade and semi-shaded plants to enhance the visual aesthetic of the development. 31% of plant species used in the whole development are native species. Drip irrigation system is provided to reduce water consumption. Jonite drain covers are used to improve site aesthetics.



17. Whampoa Park

Whampoa Park is an urban community park situated in the Kallang Whampoa neighbourhood. Runoff from 62% of the 1.3-hectare site area is treated by 12 rain gardens. The treated water is channeled to the dry pond for detention and controlled discharge.

Planted dry pond with viewing deck/ boardwalk doubles up as a water feature to showcase treated water. 4 educational signages are provided to promote greater awareness of the ABC Waters design features. 58% of plant species used in the whole development are native species.



18. Daintree Residence

Daintree Residence is a private residential condominium located along Toh Tuck Road. Runoff from 13% of the 1.9-hectare site area is treated by 9 rain gardens. The rain gardens in the development are distributed between the ground level and the roof level and located along the walkways and near the condominium facilities.

9 educational signages are provided to educate the residents on the concept of the ABC Waters design features. An extensive green roof is located on the bin center to create a better visual from top down of the residential blocks. 14% of plant species used in the whole development are native species.



19. Champions Green

Champions Green is a mixed-use development located at Champions Way/ Woodlands Drive 17, comprising of both residential and commercial/ community facilities. Runoff from 31% of the 3.8-hectare site area is treated by 9 rain gardens. The rain gardens are distributed throughout the development and located near the drop-off porch, adult fitness station, children's playground, childcare center, community living space, sheltered walkways and footpaths.

5 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features. Intensive roof gardens and façade vertical greenery planter boxes are provided in the multi-storey carpark to add to the overall greenery in the development. 27% of plant species used in the whole development are native species.



20. Limbang Shopping Centre

Limbang Shopping Centre is a commercial development located at Choa Chu Kang Street 51. Runoff from 11% of the 1.4-hectare site area is treated by 8 rain gardens. The rain gardens which are adjacent to the alfresco or outdoor refreshment areas and pedestrian entrances, are along the path of visitors walking towards the indoor events plaza, shaded commercial promenade, and 2nd floor amenities.

5 educational signages are provided to educate the visitors on the concept and benefits of the ABC Waters design features in the development. Dense colourful perimeter planting around the commercial site and indoor planting at the events

plaza and 2nd floor play area add to the overall greenery and provide a varied landscape experience.

Over 50% of plant species used in the whole development are native species. A smart auto-irrigation system using drip irrigation and rain sensor is also provided to efficiently water the greenery areas and reduce the overall water consumption.



21. Irwell Hill Residences

Irwell Hill Residences is a private residential condominium located at 2, 4 & 6 Irwell Hill. Runoff from 13% of the 1.3-hectare site is treated by 3 rain gardens. The spa lounge and gym overlook the rain gardens located on the upper basement. A rain garden is also located along the corridor leading to the club pool deck area, bringing residents closer to the ABC Waters design features.

3 educational signages are provided to educate the residents on the concept of the ABC Waters design features in the development.

Intensive green roofs are provided at the residential tower blocks accessible to residents. Vertical greenery is planted on the fence around the tennis court to add to the overall greenery in the development. 37% of plant species used in the whole development are native species.



22. Tampines GreenSpring

Tampines GreenSpring is a public housing development with residential blocks, multi-story carpark (MSCP), Childcare Centre and precinct pavilion, located along Tampines Ave 5. Runoff from 25% of the 2.9-hectare site is treated by 11 rain gardens. Rain gardens are located near various amenities such as children

playground, elderly and adult fitness corners, precinct pavilion, shelters and trellis to bring residents and visitors closer to ABC Waters design features.

7 educational signages are provided to educate visitors and residents on the concept of the ABC Waters design features in the development.

An intensive roof garden and shrub planter boxes are provided at the multi-storey car park (MSCP) to add to the overall greenery of the development. 30% of plant species used in the whole development are native species. Drip irrigation system is provided to reduce water consumption.



2024 – 2026 Certified Projects

1. [Gold Certified] Bartley GreenRise

Bartley GreenRise is a public housing development bounded by Bartley Road, Bidadari Park Drive, and Bartley Walk. Runoff from 51.67% of the 1.6-hectare site is treated by 13 rain gardens located near various amenities such as childcare centre, drop-off porches, lift lobby, letterbox deck, bicycle parking, precinct pavilion, fitness station, playground and covered walkways.

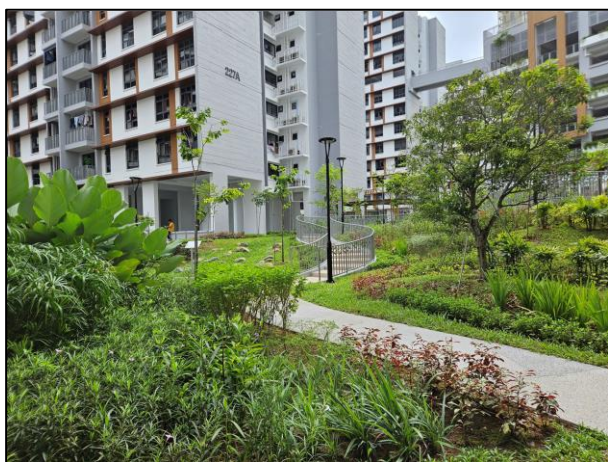
A pedestrian bridge crosses a rain garden, providing a visual top-down close-up experience. 7 educational signages are provided to educate the residents on the concept of the ABC Waters design features. Accessible rooftop gardens are located on the multi-storey carpark and residential blocks, with green roofs provided at the drop-off porch and precinct pavilion to enhance visual relief and environmental cooling. 33% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery areas to reduce water consumption. Feature spouts that carry inflow to the rain garden provide a visual experience during a rain event, and rain chimes are also provided at rain gardens to enhance audio sensory.



2. [Gold Certified] ParkEdge @ Bidadari

ParkEdge @ Bidadari is a public housing development bounded by Bartley Walk, Mount Vernon Road, Sang Nila Utama Road, and Bidadari Park. Runoff from 51.42% of the 2.3-hectare site is treated by 23 rain gardens, 1 bioretention lawn and 1 vegetated swale located near viewing decks, childcare centre, precinct pavilion and a terrace garden.

8 educational signages are provided to promote greater awareness of the ABC Waters design features. Accessible rooftop gardens are located on the multi-storey carpark with façade planters to provide vertical greenery, and sky terraces and green roofs are located around the residential blocks. 18.6% of plant species used in the whole development are native species. Treated rainwater is collected in a rainwater harvesting tank integrated with a rain garden, with the tank supplying water for landscape irrigation to showcase water efficiency in the development.



3. [Gold Certified] Alkaff Breeze

Alkaff Breeze is a public housing development bounded by Upper Aljunied Road and Alkaff Crescent, located near Bidadari Park. Runoff from 53% of the 1.6-hectare site is treated by 9 rain gardens located near several facilities such

as sheltered linkway, adult fitness station, elderly fitness station, playground, community living space, childcare centre, drop-off porch and precinct pavilion.

3 educational signages are provided to promote greater awareness of the ABC Waters design features. A community garden is provided at the multi-storey carpark enhanced with vertical greenery, and accessible rooftop gardens are located at the childcare centre and residential blocks. Green roofs on the drop-off porch and precinct pavilion add to the overall greenery in the development. 29.4% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery areas to reduce water consumption, and creative drain covers are used throughout the development to enhance visual aesthetics.



4. [Gold Certified] Heart of Yew Tee

Heart of Yew Tee is a public housing development located at Yew Tee Close in Choa Chu Kang Town, consisting of 2 residential blocks, a block of commercial podium and other ancillary facilities. Runoff from 82% of the 0.6-hectare site is treated by a series of bioretention planters and rain garden, with treated rainwater stored in a rainwater harvesting tank. The ABC Waters design features are mainly located on the 1st and 2nd storey near various amenities such as community plaza, drop-off porch, children's playground and hawker centre.

2 educational signages are provided to promote greater awareness of the ABC Waters design features. Accessible landscape decks equipped with various amenities are located on different storeys, and green roofs are provided at the bus stop, linkway roof and precinct pavilion to enhance visual relief and environmental cooling. A green wall on the 1st storey channels runoff from the bioretention planter on the 2nd storey to the rain garden below. 50.4% of plant species used in the whole development are native species. Treatment of harvested rainwater using membrane technology (ultrafiltration system) for irrigation via drip irrigation system is provided to reduce the consumption of water.



5. [Gold Certified] Integrated Bidadari Park

Integrated Bidadari Park serves as a green heart for Bidadari Estate, comprising Bidadari Park, Alkaff Lake, Underground Service Reservoir, Memorial Garden, and Greenway North and South. Runoff from 55% of the 10-hectare site is channelled to and treated by vegetated swales and constructed wetlands. The vegetated swales along Greenway North and Greenway South are located near seating benches, shelters and stepping stones, while the constructed wetlands are located at the north and south of Alkaff Lake, a 1.8-hectare retention pond that holds up to 40,000 cubic metres of water.

7 educational signages are provided to promote greater awareness of the ABC Waters design features. A biodiverse green roof with a naturalistic planting mix is located above the toilet in Bidadari Park to improve biodiversity and enhance overall greenery. 90% of plant species used in the whole development are native species. Gross Pollutant Traps are provided as a sediment removal system to screen off litter before discharging into Alkaff Lake.



6. [Gold Certified] Integrated Business Park Development on CC1 at Punggol Digital District

Parcel CC1 at Punggol Digital District is part of the overall integrated business park development in Punggol North, envisioned to be Singapore's first smart district. Runoff from 46% of the 4.28-hectare site is channelled to and treated by 6 rain gardens located in close proximity to footpaths, an urban farm, stepping stone paths, a playground and a bridge connection to SIT Punggol Campus.

3 educational signages are provided to promote greater awareness of the ABC Waters design features. Extensive soilless green roofs and intensive sky terraces are found on all blocks, with a variety of vertical greenery to strengthen the biophilic design and aesthetic value of the development. 45.3% of plant species used in the whole development are native species. Treated rainwater is collected in a rainwater harvesting tank integrated with several rain gardens, with the tank supplying water for the drip irrigation system used for landscape planting, and siphonic rainwater downpipes to ensure fast and efficient drainage for the development.



7. [Gold Certified] Integrated Business Park Development on CC2 at Punggol Digital District

Parcel CC2 at Punggol Digital District is part of the overall integrated business park development in Punggol North, envisioned to be Singapore's first smart district. Runoff from 45.6% of the 3.27-hectare site is channelled to and treated by 1 cleansing biotope, 2 rain gardens and 1 vegetated swale, with treated water from the cleansing biotope directed to the eco-pond and subsequently into the central rainwater harvesting tank for irrigation. These features are located in close proximity to footpaths, and a timber bridge is built over the West Pond and cleansing biotope to bring people closer to water.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. Extensive soilless green roofs are provided on all blocks, with an intensive garden bridge constructed to connect buildings whilst

beautifying the development. 51% of plant species used in the whole development are native species. A drip irrigation system is used for landscape planting, with siphonic rainwater downpipes to ensure fast and efficient drainage for the development.



8. [Gold Certified] OBS @ Coney Island

The new Outward Bound Singapore campus at Coney Island is part of the National Outdoor Adventure Education masterplan, aimed at providing rich learning experiences and developing resilience and ruggedness in youth. Runoff from 43% of the 11.8-hectare main campus is channelled to and treated by 14 rain gardens, 1 sedimentation basin, 330 metres of vegetated swales and 1 constructed wetland. The ABC Waters design features are seamlessly integrated with adventure elements, lodgings and dining hall, and an elevated boardwalk crosses over the wetland and sedimentation basin to bring students closer to water.

7 educational signages are strategically placed to promote greater awareness of the ABC Waters design features. Soilless green roofs are installed on the Sea Operations Centre and pool pavilion, and a publicly accessible roof garden at the OBS Hub enhances the green ambiance and provides more spaces for people to gather and interact. 70% of plant species used in the whole development are native species, creating low-maintenance landscapes which support existing biodiversity. Rainwater from the roof is collected in a rainwater harvesting tank and passes through an automatic backflush filter before being used for irrigation.



9. [Gold Certified] Parc Flora @ Tengah

Parc Flora @ Tengah is a public housing development bounded by Tengah Garden Walk and Tengah Drive with direct access to the adjacent Common Green's linear park. Runoff from 52.1% of the 2.6-hectare site is channelled to and treated by 1 vegetated swale and 15 rain gardens located near drop-off porches, fitness stations, children's playground, precinct pavilion, childcare centre, community living space and a network of sheltered walkways.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. Rooftop gardens and façade planter boxes are provided at the multi-storey carpark, and green roofs on the childcare centre and precinct pavilion enhance the overall greenery in the development. 34.1% of plant species used in the whole development are native species. Treated rainwater is collected in a rainwater harvesting tank integrated with rain gardens, with the tank supplying water for landscape irrigation and general maintenance washing.



10. [Gold Certified] Tampines GreenEmerald

Tampines GreenEmerald is a public housing development with a park located adjacent to Bedok Canal and bounded by Bedok Reservoir Road and Tampines Street 96. Runoff from 60% of the 4-hectare site is treated by 21 rain gardens located near community living space, childcare centre, precinct pavilion, plazas and playgrounds to allow residents to get closer to the features.

10 educational signages are provided to promote greater awareness of the ABC Waters design features. The development has roof gardens on the multi-storey carpark and residential blocks as well as a green roof on the childcare centre to enhance overall greenery. 36% of plant species used in the whole development are native species. Rainwater is collected in rainwater harvesting tanks and reused for landscape drip irrigation and general maintenance washing.



11. [Gold Certified] Garden Bloom @ Tengah

Garden Bloom @ Tengah is a public housing development located within the Garden District in Tengah. Runoff from 56% of the 5.3-hectare site area is conveyed to and treated by 18 rain gardens located near sheltered walkways, playgrounds, fitness stations, community living space and footpaths to allow residents and visitors to get close to the features.

9 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features. Façade planting at the multi-storey carpark, green roofs, and intensive and extensive roof gardens are provided to enhance visual relief and environmental cooling in the precinct. 25.1% of plant species used in the whole development are native species.

Treatment of harvested rainwater using membrane technology (ultrafiltration system) and drip irrigation system is provided for skyrise greenery to reduce water consumption.



12. [Gold Certified] Parc Woods @ Tengah

Parc Woods @ Tengah is a public housing development located within the Park District in Tengah. Runoff from 59.3% of the 4.17-hectare site area is conveyed to and treated by 27 rain gardens and 3 vegetated swales located near sheltered walkways, playgrounds, fitness stations, community living space and community farming to bring residents and visitors closer to the features.

8 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features. As part of HDB's biophilic design approach, façade planting at the multi-storey carpark, green roofs and roof gardens are provided to integrate greenery in the precinct for better health and wellness. 27.9% of plant species used in the whole development are native species. Treatment of harvested rainwater using membrane technology (ultrafiltration system) and drip irrigation system for skyrise greenery is provided to reduce water consumption.



13. [Gold Certified] Plantation Village

Plantation Village is a residential development located at the Plantation District in Tengah. Runoff from 54.7% of the 8.25-hectare site area is conveyed to and treated by 65 rain gardens located near sheltered walkways, seating places, playgrounds, fitness stations, community living space and community farming to bring residents and visitors closer to the features.

4 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features. As part of HDB's biophilic design approach, façade planting at the 3rd storey e-deck and plantation plaza, green roofs, and intensive and extensive roof gardens are provided to integrate greenery into the precinct for better health and wellness. 21.4% of plant species used in the whole development are native species. Treated water from some of the rain gardens on the e-deck, cliff plateau, stepped garden and precinct is discharged to the harvesting tank for temporary storage and reused for irrigation and general washing.



14. [Gold Certified] Plantation Grove

Plantation Grove is a public housing development located at Tengah Drive and Plantation Crescent. Runoff from 49.1% of the 7.3-hectare site area is conveyed to and treated by 36 rain gardens located near playgrounds, fitness area, outdoor classroom, plaza, hardcourt, community centre, footpaths and shelters with seating to bring residents and visitors closer to the features.

4 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features. As part of HDB's biophilic design approach, façade planting at the e-deck and green roofs, and intensive and extensive roof gardens are provided to integrate greenery into the precinct for better health and wellness.

47.26% of plant species used in the whole development are native species. Treatment of harvested rainwater using membrane technology (ultrafiltration system) and drip irrigation system is provided to reduce water consumption.



15. [Gold Certified] Plantation Grange

Plantation Grange is a residential development in the Tengah Plantation "forest town". Runoff from 48.8% of the 6.2-hectare site area is conveyed to and treated by 36 rain gardens located near playgrounds, precinct pavilion, fitness corner, trellis, high linkway, community living space, footpaths and shelters with seating to bring residents and visitors closer to the features.

18 educational signages are provided to educate the residents and visitors on the concept of the ABC Waters design features. As part of HDB's biophilic design approach, façade planting at the e-deck and green roofs, and intensive and extensive roof gardens are provided to integrate greenery into the precinct for better health and wellness. 24% of plant species used in the whole development are native species. Treatment of harvested rainwater using membrane technology (ultrafiltration system) and drip irrigation system is provided for skyrise greenery to reduce water consumption.



16. [Gold Certified] Plantation Acres

Plantation Acres is a public housing development comprising 9 residential blocks with a multi-storey carpark, located at Plantation Crescent in the Tengah Planning Area. Runoff from 50.2% of the 4.72-hectare site is conveyed to and treated by 32 rain gardens located near walkways, childcare centre, drop-off point, link bridge and fitness station. Viewing areas are designed to be barrier-free for wheelchair accessibility.

10 educational signages are provided to promote greater awareness of the ABC Waters design features. Accessible rooftop gardens on levels 9 and 11 of residential blocks provide visual relief and quiet rest areas for residents, with trailing plants covering façade structures. 23% of plant species used in the whole development are native species, with a variety of species selected to create habitats for birds and butterflies. A drip irrigation system is provided for skyrise greenery, and a rainwater harvesting tank is incorporated for plant watering and general washing.



17. [Gold Certified] Plantation Edge I & II

Plantation Edge I & II is a public housing development located in the Tengah Planning Area. Runoff from 51% of the entire site area is conveyed to and treated by 31 rain gardens located near fitness stations, playgrounds, precinct pavilions, supermarket, resident network centre, hardcourt and drop-off porch. 31 educational signages are provided to promote greater awareness of the ABC Waters design features. North and South multi-storey carpark rooftop gardens provide visual relief and quiet rest areas for residents, with extensive green roofs provided on shelters.

67% of plant species used in the whole development are native species, helping to promote biodiversity in the development. A drip irrigation system is provided at the rooftop gardens and a rainwater harvesting tank is incorporated for drip irrigation and staircase tap points.



18. [Gold Certified] Kim Keat Ripples

Kim Keat Ripples is a public housing development comprising 3 residential blocks with a multi-storey carpark, located at Toa Payoh East and Kim Keat Avenue. Runoff from 50.72% of the 2.56-hectare site area is conveyed to and treated by 9 bioretention basins and 1 bioretention lawn located near childcare centre, community living space, precinct pavilion, resident committee centre, drop-off porch, arrival plaza, playground, shelter, and elderly and adult fitness corners. A central trellis is located in the middle of one rain garden for residents to have a bird's-eye view.

5 educational signages are provided to promote greater awareness of the ABC Waters design features. Accessible roof gardens on residential blocks, childcare centre and multi-storey carpark enhance top-down visual aesthetics, with extensive green roofs on the precinct pavilion and drop-off porch. Façade planting on the multi-storey carpark softens the overall look of the development. 46% of plant species used in the whole development are native species. A drip irrigation system is provided for roof gardens at the childcare centre and multi-storey carpark, and a rainwater harvesting tank is integrated with a rain garden for use in interactive water features.



19. Yio Chu Kang Beacon

Yio Chu Kang Beacon is a public housing development located along Ang Mo Kio Avenue 9. Runoff from 36.8% of the 1.58-hectare site area is conveyed to and treated by 3 rain gardens located near drop-off porch, outdoor learning desk, fitness stations and playground. An elevated walkway is provided above a rain garden to give residents a top-down close-up view of the feature.

3 educational signages are provided to educate the residents on the concept of the ABC Waters design features. Rooftop gardens and façade planting are provided on residential blocks and multi-storey carpark to provide visual relief and environmental cooling in the development. 22% of plant species used in the whole development are native species. A drip irrigation system is provided to reduce water consumption.



20. Kebun Baru Edge

Kebun Baru Edge is a public housing development located along Ang Mo Kio Street 21 and Ang Mo Kio Avenue 1, adjacent to Bishan-Ang Mo Kio Park. Runoff from 28% of the 1.78-hectare site area is conveyed to and treated by 4 rain gardens located near sheltered walkways, drop-off porch, footpaths, adult and elderly fitness stations, children's playgrounds and the community living room.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. Intensive roof gardens are located above the

residential blocks and multi-storey carpark, with façade planter boxes providing additional greenery. 36.5% of plant species used in the whole development are native species. A drip irrigation system is provided for intensive roof gardens to reduce water consumption.



21. Pine Ville @ AMK

Pine Ville @ AMK is a public housing development consisting of 6 residential blocks with a multi-storey carpark, located along Ang Mo Kio Avenue 5. Runoff from 25.5% of the 3.63-hectare site is conveyed to and treated by 4 rain gardens and 7 vegetated swales located near drop-off porches, precinct pavilion, community garden, adult and elderly fitness corner, covered linkway, children's playground, sheltered BBQ area and badminton court.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. The multi-storey carpark roof garden offers spaces of respite for residents while enhancing visual relief and environmental cooling in the development. 40.3% of plant species used in the whole development are native species. An urban rainwater harvesting tank is incorporated to utilise harvested rainwater for irrigation.



22. Alkaff CourtView

Alkaff CourtView is a public housing development located within Bidadari estate, comprising 6 residential blocks with a total of 1,258 units, along with multi-storey carpark and community facilities. Runoff from 9.0% of the 4.38-hectare site is channelled to and treated by 7 rain gardens strategically located

along the main verandah and residential centre, with an education centre overlooking a rain garden.

6 educational signages are provided to promote greater awareness of the ABC Waters design features. Accessible rooftop gardens are located on the multi-storey carpark and residential blocks, with extensive green roofs on the verandah and education centre roofs, and parapet planters provided on residential blocks. 29% of plant species used in the whole development are native species. An automatic drip irrigation system with rain sensor is provided for skyrise greenery areas in the development.



23. Harmony Village

Harmony Village @ Bukit Batok is the first assisted living public housing development, comprising 1 block of 15-storey residential building integrated with hawker centre, car park and senior activity centre with roof garden.

Runoff from 24% of the 0.6-hectare site is channelled to and treated by 7 rain gardens — 1 at ground level and 6 on the 6th storey roof garden — located close to facilities such as precinct pavilion on Level 1 and walkways, pavilion and fitness station on the roof garden on Level 3.

5 educational signages are provided to promote greater awareness of the ABC Waters design features, with organised tours conducted by the Town Council. 1 intensive roof garden on the multi-storey carpark cum hawker centre, extensive roofs on the precinct pavilion and drop-off porch, and planter boxes in the multi-storey carpark enhance visual relief and environmental cooling in the development.

26% of plant species used in the whole development are native species. A drip irrigation system is provided for the multi-storey carpark roof garden as well as green roofs at the precinct pavilion and drop-off porch.



24. Bukit Canberra

Bukit Canberra is a 12-hectare integrated sport and community hub comprising a single-storey hawker centre and a 3-storey integrated community sports and fitness development with indoor sports hall, swimming pools, polyclinic, senior care, childcare facilities with single basement carpark and public park. Runoff from 2.16% of the entire site area is channelled to and treated by 1 rain garden, with treated runoff discharged into a detention tank. The rain garden is located in close proximity to facilities such as walkways, indoor sports hall and community lawn.

1 educational signage is provided to promote greater awareness of the ABC Waters design features. Accessible roof gardens at levels 2 and 3, extensive green roofs, and planter boxes are provided all around the development to improve overall greenery and visual appeal. 48.0% of plant species used in the whole development are native species. Earth drains are incorporated as natural drainage systems and a drip irrigation system is provided.



25. Telok Blangah Beacon

Telok Blangah Beacon is a public housing development located along Telok Blangah Drive, comprising a 38-storey residential block and a 3-storey podium block with supermarket, replacement market and hawker centre, and roof garden. Runoff from 32.7% of the 0.66-hectare site is channelled to and

treated by 1 bioretention basin (rain garden) and 3 bioretention swales located close to facilities such as footpath, corridor and community plaza.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. An accessible rooftop garden is located on Level 3 of the residential block, with extensive roof gardens provided to enhance visual relief and environmental cooling in the development. 22.6% of plant species used in the whole development are native species. A drip irrigation system is provided for roof gardens to reduce water consumption, and innovative jonite sump gratings improve the aesthetic of the rain garden.



26. Infrastructure Works at Bulim (Phase 1)

Infrastructure Works at Bulim (Phase 1) pioneers a new industrial park typology of the future by incorporating ABC Waters design features with industry, demonstrating how sustainable stormwater management can be seamlessly integrated into industrial developments while fostering a work-live-play-learn ecosystem.

Runoff from 26.1% of the 10.7-hectare site is treated by 1 rain garden with a stormwater tank, with the rain garden and adjacent detention pond working in tandem to regulate overflow and treated runoff. The 6,065 m² detention pond is designed to detain water for up to 4 hours during heavy downpour, ensuring controlled discharge into the public drainage system.

Community-centric features such as walkways, pavilions, viewing decks and an elevated boardwalk crossing the rain garden and detention pond are integrated in the development, coupled with educational signages to foster greater awareness of ABC Waters design features. Native species are extensively incorporated across the development, especially along the Natureways, to support ecological connectivity between Bahar and Tengah. An extensive green roof at the F&B facility enhances greenery and aesthetic appeal, while earth drains soften the landscape and beautify the area.



27. Teck Whye View

Teck Whye View is a public housing development located at Jalan Teck Whye with multi-storey carpark with landscape roof garden, childcare centre and precinct pavilion. Runoff from 25.5% of the 1.93-hectare site is channelled to and treated by 11 rain gardens located in close proximity to facilities such as footpaths, drop-off porches, playground, fitness centre, viewing deck and bridge over rain garden, with treated runoff released to a nearby drain.

6 educational signages with QR codes to access PUB's website on the ABC Waters Programme are provided to promote greater awareness of the ABC Waters design features. An intensive roof garden and planter boxes are installed in the multi-storey carpark to enhance visual relief and environmental cooling in the development. 26.3% of plant species used in the whole development are native species. A drip irrigation system is provided for the multi-storey carpark roof garden, façade planters and void deck landscape areas.



28. West Coast Parkview

West Coast Parkview is a public housing development located at West Coast Crescent, with multi-storey carpark with landscape roof garden, precinct pavilion, social communal facilities and commercial at 1st storey. Runoff from 25.0% of the 3.09-hectare site is treated by 8 rain gardens located in close proximity to facilities such as playgrounds, adult and elderly fitness stations

and drop-off porches, with treated water collected by subsoil pipe and discharged to the detention tank. 8 educational signages are provided to promote greater awareness of the ABC Waters design features.

Accessible rooftop gardens are located on residential blocks and multi-storey carpark, with planter boxes provided in the multi-storey carpark as vertical greenery to provide visual relief and enhance environmental cooling in the development. 31% of plant species used in the whole development are native species. An automatic drip irrigation system with rain sensor is installed at the roof garden at the multi-storey carpark and sky terrace roof gardens at the 17th and 22nd storey, and innovative jonite gratings are used for tree holes.



29. Hougang Citrine

Hougang Citrine is a public housing development bounded by Hougang Street 12, Hougang Street 13, Hougang Avenue 3 and Hougang Close. Runoff from 11.5% of the 3.33-hectare site is channelled to and treated by 10 rain gardens located in close proximity to facilities such as outdoor gym, childcare centre, drop-off porches, therapeutic walks, community garden, precinct pavilion, courtyard, fitness stations, community living rooms, bicycle parking area, shelters, trellis and playground.

7 educational signages are provided to promote greater awareness of the ABC Waters design features. Roof garden and façade greenery are provided at the multi-storey carpark, with extensive green roofs at the drop-off porch and precinct pavilion to provide visual relief and environmental cooling in the development. 48% of plant species used in the whole development are native species. Rainwater is collected in a rainwater harvesting tank and reused for drip irrigation for skyrise greenery areas. An innovative rain-activated fountain is provided at one of the rain gardens located adjacent to the lift lobby to promote interaction with the feature.



30. Hougang Olive

Hougang Olive is a public housing development bounded by Hougang Avenue 2, Hougang Street 12 and Hougang Street 13, located between Kovan and Serangoon MRT. Runoff from 29.7% of the 2.43-hectare site is channelled to and treated by 4 rain gardens, with treated runoff channelled to a detention tank for controlled discharge and a rainwater harvesting tank provided to harvest rainwater for reuse in irrigation.

Rain gardens are located in close proximity to facilities such as footpath, elderly and adult fitness stations, playgrounds, drop-off porch and precinct pavilion, with boardwalks installed above 2 rain gardens.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. An extensive green roof is provided on the precinct pavilion and drop-off porch, with an intensive roof garden and façade planters provided on the multi-storey carpark to enhance visual relief and environmental cooling in the development. All green roofs utilise the soil-less Gaia-mat system. 44% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery areas to reduce water consumption.



31. Toh Guan Grove

Toh Guan Grove is a public housing development located along Toh Guan Road. Runoff from 28.8% of the 1.72-hectare site is channelled to and treated by 6 rain gardens, with treated water channelled to a detention tank for detention and controlled discharge. Rain gardens are located in close proximity to facilities such as playgrounds, adult fitness stations, elderly fitness stations, gathering space, precinct pavilion and drop-off porches.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. Accessible rooftop gardens are located at the residential blocks, with extensive green roofs provided on the drop-off porch, precinct pavilion and some residential blocks to enhance visual relief and environmental cooling in the development. 33% of plant species used in the whole development are native species. A drip irrigation system is provided at drop-off points' green roofs and roof gardens.



32. Jurong Lake Gardens (Chinese & Japanese Gardens & Northern Segment of Lakeside Garden)

The Japanese Garden, Chinese Garden and Northern Segment of Lakeside Garden are new additions to Jurong Lake Gardens, Singapore's third national garden.

Runoff from 20.1% of the 33.76-hectare site is channelled to and treated by 15 rain gardens at Japanese Garden, 22 rain gardens at Chinese Garden and 3 rain gardens at the Northern Segment of Lakeside Garden. The gardens feature at least 11 key facilities including Skate Park, Ficus Lawn, Moon Lantern Terrace, Cascading Creek, Sunken Garden, Rest House, Water Lily Pond, Guesthouse, Waterwall Court, Zig-Zag Bridge near Bonsai Garden, and Edible Garden, all thoughtfully designed to draw people closer to water. 8 educational signages are provided to promote greater awareness of the ABC Waters design features.

61.1% of plant species used in the whole development are native species. A drip irrigation system is provided for landscape areas at the Chinese Garden, Japanese Garden and Northern Segment of Lakeside Garden.



33. Boon Lay Glade

Boon Lay Glade is a public housing development bounded by Boon Lay Drive, Jalan Boon Lay and Boon Lay Way. Runoff from 26.8% of the 2.92-hectare site is channelled to and treated by 16 rain gardens located in close proximity to facilities such as community living rooms, fitness stations, playgrounds, trellises and shelters.

1 educational signage is provided to promote greater awareness of the ABC Waters design features. A roof garden is provided on the multi-storey carpark and childcare centre, with façade planters incorporated as part of the façade at the multi-storey carpark to enhance visual relief and environmental cooling in the development. 27.50% of plant species used in the whole development are native species. Rainwater collected in the rainwater harvesting tank is used for washing of general areas.



34. Nanyang Opal

Nanyang Opal is a public housing development located at Jurong West Street 93, comprising 2 residential blocks with 221 dwelling units and a multi-storey carpark with roof garden featuring adult and elderly fitness corners. Runoff from 40.0% of the site is channelled to and treated by 2 rain gardens, 1 bioretention swale and 1 vegetated swale dispersed throughout the development, located in close proximity to shelters, trellis, children playground, adult/elderly fitness station and void decks. 4 educational signages are provided to promote greater awareness of the ABC Waters design features.

Accessible rooftop gardens are located on multi-storey carpark with extensive green roofs on the verandah and precinct pavilion, while vertical greenery along the multi- storey carpark (MSCP) façade helps soften hard edges and reduce urban heat island effect. 26% of plant species used in the whole development are native species. Drip irrigation system is provided for skyrise greenery areas in the development.



35. Kallang Horizon

Kallang Horizon is a public housing development integrated with a transport hub, located along Lorong 1 Geylang and conveniently near Kallang MRT Station. Runoff from 26% of the 1.86-hectare site is channelled to and treated by 4 rain gardens located near adult fitness station, community living room, park connector, playground, activity lawn and arrival lobby to bring people closer to the features, with treated water released to nearby drains.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. A landscape deck is located on the roof of the Integrated Transport Hub and is accessible to the public, with a green roof featuring a mix of extensive and intensive greening strategies to enhance the visual quality and green character of the development. 38% of plant species used in the whole development are native species. A drip irrigation system is provided for roof gardens and skyrise greenery in the project, along with a siphonic drainage system to ensure fast and efficient drainage for the development.



36. Rajah Summit

Rajah Summit is a public housing development located at Jalan Rajah. Runoff from 27.59% of the 1.35-hectare site is channelled to and treated by 7 rain gardens located near the 3G fitness and play area, community plaza, open plaza and nature promenade to allow visitors to get up close to the features.

7 educational signages are provided to promote greater awareness of the ABC Waters design features. Extensive green roofs, sky terraces and vertical planter boxes improve the overall greenery in the development. 58.9% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery to reduce water consumption, and innovative jonite sump gratings beautify the rain garden.



37. Kent Heights

Kent Heights is a public housing development located at Owen Road. Runoff from 35.23% of the 1.37-hectare site is channelled to and treated by 5 rain gardens located in close proximity to facilities such as drop-off porches, precinct pavilion, community living rooms, fitness corner, jogging tracks and children's playground.

5 educational signages are provided to promote greater awareness of the ABC Waters design features. The development features a number of accessible roof gardens at the multi-storey carpark and residential blocks to provide visual relief, a variety of outdoor activity and rest areas while cooling the environment. Planter boxes along the façade of the multi-storey carpark increase overall greenery. 34.38% of plant species used in the whole development are native species.



38. Kempas Residences

Kempas Residences is a public housing development located in Kallang Whampoa, comprising residential buildings with multi-storey carpark and community facilities. Runoff from 27.7% of the 1.51-hectare site is channelled to and treated by 8 rain gardens located near drop-off porches, precinct pavilion, community living rooms, elderly fitness corner, children's playground and cycling paths. 7 educational signages are provided to promote greater awareness of the ABC Waters design features.

Overall greenery is enhanced with green roofs and roof gardens around the development. 40% of plant species used in the whole development are native species. Treated rainwater from 2 rain gardens is collected in a rainwater harvesting tank integrated with a rain garden, and a drip irrigation system is provided for skyrise greenery areas in the project.



39. Kovan WellSpring

Kovan WellSpring is a public housing development located conveniently near Kovan MRT Station. Runoff from 22% of the 2.58-hectare site is channelled to and treated by 10 rain gardens located near facilities such as outdoor gym, childcare centre, drop-off porches, community garden, precinct pavilion, fitness stations, bicycle parking area and playground. 4 educational signages are provided to promote greater awareness of the ABC Waters design features.

Extensive green roofs are widely provided around the precinct, and an accessible roof garden is located on the multi-storey carpark with façade planters to enhance visual relief and environmental cooling in the development. 58.4% of plant species used in the whole development are native species. A rainwater harvesting system is provided to collect rainwater and is reused for drip irrigation for the skyrise greenery areas in the project.



40. Mandai Rainforest Resort by Banyan Tree

Mandai Rainforest Resort by Banyan Tree is nestled within the Mandai Wildlife Reserve, a wildlife and nature destination in northern Singapore. Surrounded by lush greenery, the five-storey resort is designed to preserve the site's natural terrain while retaining the mature trees on site. Runoff from 11.3% of the 4.6-hectare site is channelled to and treated by 3 rain gardens, with treated runoff and overflow discharge flowing into a rainwater harvesting tank for storage and reuse for irrigation and toilet flushing.

2 educational signages are provided at the eco-pond and rain garden to educate guests on natural rainwater filtration and its role in supporting local biodiversity. The Nature Conservation Centre also serves as an educational space where visitors can learn about conservation practices.

Vertical green walls and extensive green roofs along the guest room corridors showcase the resort's biophilic design, bringing nature into every aspect of the guest experience. Native species are extensively incorporated across the development. A drip irrigation system is provided for landscape in the project, and earth drains are incorporated on the site as natural channels to convey stormwater.



41. McNair Heights

McNair Heights is a public housing development located along McNair Road. Runoff from 17.8% of the 1.74-hectare site is channelled to and treated by 6 rain gardens located near facilities such as the playground, elderly fitness station and shelters, with treated water channelled to a detention tank for detention and controlled discharge to nearby drains.

7 educational signages are provided to promote greater awareness of the ABC Waters design features. Extensive green roofs are located at the precinct pavilion, drop-off porch and a residential block, with a roof garden and façade planters at the multi-storey carpark to enhance visual relief and environmental cooling in the development. A rain-activated fountain at one of the rain gardens creates a beautiful waterspout feature in the precinct. 41.5% of plant species used in the whole development are native species. A drip irrigation system is provided for the multi-storey carpark roof, extensive green roofs and façade landscape in the project.



42. One Pearl Bank

One Pearl Bank is a private residential condominium at Pearl Bank, adjacent to Pearl's Hill City Park. Runoff from 31% of the 0.77-hectare site is channelled to and treated by 1 cleansing biotope, 2 vegetated swales and 1 rain garden. Several facilities such as the exercise bench, pedestrian ramp and footpath,

kid's water play and dining pavilion are situated near the ABC Waters design features to bring residents closer to these features.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. Sky terraces and sky bridges are provided every four storeys to improve greenery in the development and enhance the landscape aesthetics of the development. 58.45% of plant species used in the whole development are native species. A drip irrigation system is provided for landscape in the project.



43. Outram Secondary School

Outram Secondary School is a new secondary school comprising 1 block of 6-storey teaching block and 1 block of 5-storey MPH and ISH at Anchorvale Crescent. Runoff from 20.7% of the 2.96-hectare site is channelled to and treated by 2 rain gardens, with treated water stored in a 557 m³ underground detention tank before discharging to the public drain. Rain gardens are located in close proximity to facilities such as footpaths, seating spaces for students to gather for learning purposes, basketball, volleyball and netball courts and soccer field.

2 educational signages are provided to promote greater awareness of the ABC Waters design features. A sky garden dubbed as Cloud Forest is located on the 3rd storey for students and teachers to relax, with planter boxes provided along communal walkways on all storeys to soften the hardscape of the school. 53% of plant species used in the whole development are native species. A drip irrigation system is provided for the planter boxes.



44. Costa Grove

Costa Grove is a public housing development located at Pasir Ris Drive 3. Runoff from 25.15% of the 7.02-hectare site is channelled to and treated by 18 rain gardens and 4 bioretention swales, with treated water channelled to a detention tank for detention and controlled discharge to nearby drains. Rain gardens are located near facilities such as walkways, shelter linkways, drop-off points and commercial facilities.

22 educational signages are provided to promote greater awareness of the ABC Waters design features. Roof gardens are located at the landscape deck, sky gardens at residential blocks, and extensive green roofs at drop-off shelters, childcare centre and precinct pavilions to enhance visual relief and environmental cooling in the development. 29.0% of plant species used in the whole development are native species. Rainwater is collected in a rainwater harvesting tank and reused for drip irrigation for skyrise greenery areas.



45. Pathlight School (Tampines)

Pathlight School at Tampines is a purpose-built special education school located at Tampines Street 91. Runoff from 13.7% of the 1.55-hectare site is channelled to and treated by 2 bioretention basins and 4 filtration planters, with treated water collected and discharged to an outlet drain then to a detention tank. ABC Waters features are located near facilities such as the public entrance café and bakery, community garden and roof garden

walkways. 5 educational signages are provided to promote greater awareness of the ABC Waters design features.

Intensive green roofs including a roof garden and community garden are located on the 7th floor, with vertical planting along the campus perimeter and farm-to-table gardens to enhance the green aesthetics of the development. 31% of plant species used in the whole development are native species. A drip irrigation system is provided for intensive roof gardens and landscape in the project.



46. Punggol Point Crown

Punggol Point Crown is a public housing development bounded by New Punggol Road and Northshore Drive. Runoff from 24.3% of the 4.59-hectare site is channelled to and treated by 19 rain gardens located near facilities such as drop-off points, precinct pavilion, playground and fitness corners, with treated water discharged to detention drains for controlled discharge to nearby drains. A key highlight is the circular node at the end of Heritage Walk, featuring a lookout deck with seating overlooking a rain garden.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. Intensive roof gardens are provided on the multi-storey carpark rooftop, childcare centre rooftop and on residential blocks, with façade planters incorporated as part of the multi-storey carpark façade to enhance visual relief and environmental cooling in the development. 87% of plant species used in the whole development are native species. Rainwater is collected in a rainwater harvesting tank and reused for drip irrigation for skyrise greenery areas.



47. Punggol Point Woods

Punggol Point Woods is a public housing development located at Northshore Drive. Runoff from 25% of the 2.78-hectare site is channelled to and treated by 6 rain gardens located near facilities such as outdoor gym, childcare centre, drop-off porches, community garden, precinct pavilion, fitness stations and playground, with treated water collected and released to a detention tank for controlled discharge to nearby drains.

5 educational signages are provided to promote greater awareness of the ABC Waters design features. Accessible rooftop gardens are located on the Environmental Deck carpark and residential blocks, with extensive green roofs provided at the drop-off porch, eating house, supermarket, Pneumatic Waste Conveyance System bin centre and precinct pavilion to enhance visual relief and environmental cooling in the development. 23% of plant species used in the whole development are native species. Rainwater is collected in a rainwater harvesting tank and reused for drip irrigation for skyrise greenery areas.



48. Queen's Arc

Queen's Arc is a public housing development located at Queen's Crescent and Queensway Drive. Runoff from 17.9% of the 2.32-hectare site is channelled to and treated by 6 rain gardens and 2 vegetated swales, with treated water discharged through overflow sumps into underground concrete drains to a detention tank for controlled discharge to nearby drains. Rain gardens are

located near facilities such as entrance garden, seating areas between childcare centre and playground, multi-storey carpark roof garden terraced features and fitness circuit areas.

6 educational signages are provided to promote greater awareness of the ABC Waters design features. Accessible rooftop gardens are provided on the multi-storey carpark with lush planting, fitness areas and community gardens, with sky gardens between residential blocks and façade planter boxes on the multi-storey carpark to enhance visual relief and environmental cooling in the development. 23% of plant species used in the whole development are native species. A drip irrigation system with rain sensors and moisture sensors is provided for roof garden planting areas in the project.



49. River Green

River Green is a private residential condominium located at River Valley Green. Runoff from 15.3% of the 0.93-hectare site is channelled to and treated by 3 rain gardens, with treated water collected and channelled to a detention tank for controlled discharge to nearby drains. Rain gardens are located near facilities such as a sun deck with footpath and benches near the 50m lap pool, grand arrival main drop-off with seating area, and social lounge adjacent to reflective pool.

3 educational signages are provided to promote greater awareness of the ABC Waters design features. Intensive sky terraces are provided in the condominium with façade planters along the edge of the sky terraces to enhance the green aesthetics of the development. 45% of plant species used in the whole development are native species.



50. Sun Sails

Sun Sails is a public housing development located at Sembawang Avenue and Sembawang Link. Runoff from 30% of the 4.96-hectare site is channelled to and treated by 10 rain gardens located near facilities such as children's playgrounds, fitness stations, drop-off porches, community living spaces and sheltered walkways, with treated water channelled to a rainwater harvesting tank for controlled discharge to nearby drains.

10 educational signages are provided to promote greater awareness of the ABC Waters design features. Multi-storey carpark roof gardens and sky gardens at the 8th storey are provided for residents, with extensive green roofs on the precinct pavilion and childcare centre, and façade planter boxes at the multi-storey carpark to enhance visual relief and environmental cooling in the development. 41.1% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery in the project.



51. Fernvale Vines

Fernvale Vines is a public housing development located at Fernvale Street and Fernvale Road in Sengkang. Runoff from 31% of the 2.89-hectare site is channelled to and treated by 6 bioretention basins and 2 bioretention lawns

located near facilities such as Garden of Wisdom, Landform Garden, trellis, elderly fitness stations, precinct pavilions and childcare centre.

9 educational signages are provided to promote greater awareness of the ABC Waters design features. Roof gardens on residential blocks and multi-storey carpark, with vertical greenery on the carpark façade, enhance visual relief and improve environmental cooling in the development. 23% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery in the project.



52. Fernvale Dew

Fernvale Dew is a public housing development located at Fernvale Lane in Sengkang. Runoff from 23% of the 4.87-hectare site is channelled to and treated by 16 bioretention basins and swales, and vegetated swales located near facilities such as playgrounds, fitness corners, childcare centre, residents' network centre and shelters.

6 educational signages are provided to promote greater awareness of the ABC Waters design features. A landscape deck with play and fitness facilities and 6 themed gardens is provided at the roof of the carpark, and green roofs on the childcare centre and residents' network centre provide visual relief and cooling in the development. 20% of plant species used in the whole development are native species. A drip irrigation system is provided for the skyrise greenery in the project.



53. Sun Plaza Spring

Sun Plaza Spring is a public housing development located along Tampines Street 41. Runoff from 20.4% of the site is channelled to and treated by 11 rain gardens located near facilities such as drop-off porch, adult and elderly fitness corners and playground. A bridge is provided above one rain garden which brings users closer to the feature.

7 educational signages are provided to promote greater awareness of the ABC Waters design features. Roof gardens are provided on the multi-storey carpark and childcare centre, with vertical greenery and planter boxes incorporated as part of the multi-storey carpark façade to enhance visual relief and cooling in the development. 47% of plant species used in the whole development are native species. A drip irrigation system is provided for the skyrise greenery in the project.



54. Tampines GreenCourt

Tampines GreenCourt is a public housing development located at Tampines North Drive 2. Runoff from 13.8% of the site is channelled to and treated by 17 rain gardens located near facilities such as covered linkway, open plaza, playground, community living room and adult and elderly fitness stations. 5 educational signages are provided to promote greater awareness of the ABC Waters design features. Sky gardens are provided at intermittent levels of residential blocks, with green roofs incorporated on residential blocks and precinct pavilions to improve visual relief and environmental cooling in the development. 14% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery in the project.



55. Tampines GreenGlen & Tampines GreenCrest

Tampines GreenGlen and Tampines GreenCrest are public housing developments bounded by Tampines Link, Tampines North Drive 1 and Tampines Street 64. Runoff from 28.12% of the site is channelled to and treated by 9 bioretention basins, 15 vegetated swales and 1 constructed wetland spread throughout the developments and located near facilities such as playgrounds, adult fitness stations, elderly fitness stations, gathering space and precinct pavilion.

9 educational signages are provided to promote greater awareness of the ABC Waters design features. Accessible rooftop gardens are provided on residential blocks with fitness areas, community gardens, play lawn and seating, with vertical greenery and planter boxes incorporated as part of the multi-storey carpark façade to enhance the green aesthetics of the development. 26% of plant species used in the whole development are native species. A drip irrigation system is provided for roof gardens.



56. Tampines GreenQuartz

Tampines GreenQuartz is a public housing development located at Tampines Street 95 and Street 96. Runoff from 22% of the site is channelled to and treated by 26 rain gardens located near facilities such as drop-off porches, precinct pavilion, community living rooms, elderly fitness corner, shelter with seats, nature play, hardcourt, outdoor classroom and children's playground. 12 educational signages are provided to promote greater awareness of the

ABC Waters design features. Extensive green roofs are provided at drop-off porches and precinct pavilions, with façade planters incorporated at each storey of both multi-storey carparks to enhance visual relief and environmental cooling in the development. 50% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery in the project.



57. Tampines Green Opal

Tampines Green Opal is a public housing development located at Tampines Street 96. Runoff from 27% of the site is channelled to and treated by 6 rain gardens and 2 bioretention swales located near facilities such as drop-off porch, childcare centre and playgrounds, with treated water flowing directly into a rainwater harvesting tank for use in irrigation. Roof gardens are provided on the multi-storey carpark and residential blocks, with façade planters incorporated as part of the multi-storey carpark façade to enhance visual relief and improve environmental cooling in the development. 17% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery in the project.



58. Tampines Green Gem

Tampines Green Gem is a public housing development located at Tampines Street 96. Runoff from 18% of the site is channelled to and treated by 6 rain gardens located near facilities such as precinct pavilion, drop-off porch,

linkway and open plaza. A boardwalk is provided across one of the feature rain gardens which gives users a closer look at the rain garden.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. Pervasive greenery provided throughout the estate delivers extensive biophilic advantages such as slowing down stormwater runoff and reducing urban heat. Residents enjoy community facilities such as playgrounds and fitness areas above the large roof garden above the car park, with a wellness garden designed on the 4th storey. A green roof on the precinct pavilion and façade planting incorporated as part of the multi-storey carpark façade enhance the biodiversity of the development. 43% of plant species used in the whole development are native species.



59. Tampines GreenJade



Tampines GreenJade is a public housing development located at Tampines Street 96. Runoff from 19% of the 3.21-hectare site is channelled to and treated by 4 rain gardens and 1 vegetated swale located near facilities such as the childcare centre, playgrounds, fitness stations, connecting linkways to ground garden spaces and ramps up to the roof garden. An elevated pathway stretches above one rain garden offering residents a top-down view of the feature. Accessible rooftop gardens and planters are located on the multi-storey carpark and childcare centre, along with sky gardens integrated with hardscape swales and

cascading walls that lead down to the rain gardens on the ground floor, enhancing the greenery of the development at multiple tiers. 37% of plant species used in the whole development are native species. A drip irrigation system is provided for skysrise greenery in the project, with green roofs and cascading dry-scape swales serving as a naturalised drainage system.

60. Woodgrove Ascent

Woodgrove Ascent is a public housing development located at Woodlands Avenue 1 and 3. Runoff from 33% of the 5.66-hectare site is channelled to and treated by 10 rain gardens and 1 vegetated swale located near facilities such as footpaths, adult and elderly fitness stations, resident network centre, social community facility, community living space, drop-off points and playground. 4 educational signages are provided to promote greater awareness of the ABC Waters design features. Roof gardens are located on the multi-storey carpark and all residential blocks, with green roofs on linkways and drop-off porch to enhance visual relief and environmental cooling in the development. 24% of plant species used in the whole development are native species. A drip irrigation system is provided to serve the landscaped areas at the multi-storey carpark roof garden and façade planters, and harvested rainwater is reused for irrigation at the 1st storey through water tap points as well as for general surface washing.



61. Woodlands Champion Bliss

Woodlands Champion Bliss is a public housing development located at Champions Way, Woodlands Drive 17 and Woodlands Avenue 1. Runoff from 32% of the 1.93-hectare site is channelled to and treated by 8 rain gardens located near facilities such as playgrounds, fitness stations, rest areas, community living space, hardcourt, amenities, drop-off porch and precinct pavilion.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. Accessible roof gardens are located above the multi-storey carpark, with extensive green roofs on the amenities and facilities building to enhance visual relief and environmental cooling in the development. 25% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery in the project.



62. Woodlands South Plains

Woodlands South Plains is a public housing development located at Woodlands Drive 17. Runoff from 33% of the 3.19-hectare site is channelled to and treated by 15 rain gardens, 10 vegetated swales and 1 cascading rain garden located near facilities such as footpaths, fitness stations, childcare centre, drop-off porch and precinct pavilion. A cascading rain garden feature is accessible by staircase and access ramp with benches and shelter provided in close proximity, utilising the sloping terrain by arranging rain gardens in series to create a beautiful water-play feature in the precinct. 3 educational signages are provided to promote greater awareness of the ABC Waters design features. A green roof is provided on the childcare centre, and a roof garden and façade planters are provided on the multi-storey carpark to enhance visual relief and environmental cooling in the development. 52% of plant species used in the whole development are native species. A drip irrigation system is provided for skyrise greenery in the project.



63. Yishun Beacon

Yishun Beacon is a public housing development located at Yishun Central 1. Runoff from 26% of the 2.52-hectare site is channelled to and treated by 15

rain gardens and 2 vegetated swales located near facilities such as footpaths, fitness stations, shelters, playground and childcare centre.

2 educational signages are provided to promote greater awareness of the ABC Waters design features. A roof garden and façade planters are provided on the multi-storey carpark. 60% of plant species used in the whole development are native species. A drip irrigation system is provided for the skyrise greenery in the project.



64. Grove Spring @ Yishun

Grove Spring @ Yishun is a public housing development located at Yishun Avenue 6. Runoff from 29% of the 4.57-hectare site is channelled to and treated by 20 rain gardens located near facilities such as the drop-off porch, footpaths, sheltered linkways, playgrounds, fitness stations, community living spaces and precinct pavilion. Rain gardens arranged on both sides of the entry from the drop-off porch create a beautiful entrance into the precinct.

4 educational signages are provided to promote greater awareness of the ABC Waters design features. A roof garden is provided on the multi-storey carpark, with planter boxes incorporated as part of the multi-storey carpark façade to enhance visual relief and environmental cooling in the development. 31.7% of plant species used in the whole development are native species. A drip irrigation system is provided for the skyrise greenery in the project.



65. Casa Spring @ Yishun

Casa Spring @ Yishun is a public housing development located at Yishun Avenue 6. Runoff from 4% of the 3.74-hectare site is channelled to and treated by 4 bioretention basins located near facilities such as sheltered linkways, fitness corners, footpaths, playground, drop-off point, multi-storey carpark and childcare centre.

2 educational signages are provided to promote greater awareness of the ABC Waters design features. Extensive green roofs are located at the precinct pavilion and childcare centre, with an intensive roof garden and planter boxes at the multi-storey carpark to enhance visual relief and environmental cooling in the development. 49% of plant species used in the whole development are native species. A drip irrigation system is provided for the skyrise greenery in the project.



List of Certified Projects from 2010 to 2018**2010 Certified Projects**

	Projects
1	Assumption Pathway School
2	Boardwalk from VivoCity to Sentosa Island
3	Goodwood Residence
4	Greenwood Sanctuary @ Admiralty
5	Jurong Eco-Garden
6	Khoo Teck Puat Hospital
7	Punggol Waterway
8	Sengkang Riverside Park
9	Skyville @ Dawson
10	Sky Terrace @ Dawson
11	Tree House
12	United World College SEA East Campus @ Tampines
13	Upper Air Observatory at Kim Chuan Road
14	Waterway Terraces

2011 Certified Projects

	Projects
1	Anchorvale Horizon
2	Belysa
3	Boon Lay Meadow
4	Business Aviation Complex at Seletar Aerospace Park
5	Gardens by the Bay
6	H2O Residences
7	Teban View
8	Keppel Club
9	Livia Condominium
10	Privé
11	Rivervale Arc
12	River Safari Development – Phase 1
13	Senja Parc View
14	Tampines Eco Green
15	The Peak @ Toa Payoh
16	Vacanza @ East
17	Waterway Terraces II

2012 – 2014 Certified Projects

	Projects
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1	Blossom Residences
2	d'Leedon
3	Eight Riversuites
4	Firefly Park @ Clementi
5	NV Residences
6	Sengkang N2 Neighbourhood Park
7	Sky Habitat
8	The Glyndebourne
9	The Interlace
10	The Rainforest
11	Tuaspring Desalination Plant
12	Waterway Banks
13	Waterway Brooks
14	Waterway Ridges
15	Waterway Sunbeam
16	Waterway Woodcress
17	Yishun Greenwalk & N3 Neighbourhood Park

2014 – 2016 Certified Projects

	Projects
1	Coco Palms
2	SkyParc
3	Dawson C6
4	Dawson C7
5	IES Green Building @ Bukit Tinggi
6	Jurong Port
7	Kampung Admiralty
8	NTU Crescent and Pioneer Halls
9	Oasis Terraces
10	Paya Lebar Quarter
11	Waterway Cascadia
12	Singapore Sports Hub
13	SkyVue
14	Yale-NUS College

2017 – 2018 Certified Projects

	Projects
1	[Gold Certified] Rivervale Shores
2	[Gold Certified] The Learning Forest of the Singapore Botanic Gardens
3	eCO
4	Hougang ParkEdge
5	iNz Residence
6	Keat Hong Crest
7	Northshore Residences I
8	Northshore Residences II
9	SkyResidence @ Dawson

10	Waterway Sundew
11	Waterway Sunray
12	Whampoa Dew
13	Yishun Polyclinic