

# Microsoft water replenishment project portfolio

End of FY25

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Project no.	Project name	Implementation party	Priority location	Basin name	Project type (VWBA activity) (a)	Benefit duration (years) (b)	Contract FY/Operational FY	Estimated volumetric benefits (m <sup>3</sup> ) (c)
1	<a href="#">Improving water quality in Iowa</a>	Ducks Unlimited	Des Moines	<i>Major</i> —Mississippi-Missouri <i>Minor</i> —Middle Des Moines; North Raccoon	Wetland restoration and creation	10	2020/2022	819,400
2	<a href="#">Restoring North Dakota's prairie-wetlands</a>	Audubon Great Plains	Fargo	<i>Major</i> —Saskatchewan-Nelson <i>Minor</i> —Upper Red	Land cover restoration	10	2020/2021	106,880
3	<a href="#">Bringing renewable water supplies to central Arizona</a> [Retired (d)]	Bonneville Environmental Foundation (e), Gila River Water Storage	Phoenix	<i>Major</i> —North America, Colorado <i>Minor</i> —Middle Gila; Lower Salt; Lower Gila/Painted Rock	Agricultural water demand reduction measures	1	2020/2020	613,040
4	<a href="#">Improving water security for the Lower Colorado River Basin</a>	Bonneville Environmental Foundation (e), Colorado River Indian Tribes, Arizona Department of Water Resources (ADWR)	Phoenix	<i>Major</i> —North America, Colorado <i>Minor</i> —Middle Gila; Lower Salt; Lower Gila/Painted Rock	Agricultural water demand reduction measures	10	2020/2020	873,210
5	<a href="#">Boosting water supply reliability for the Columbia Basin</a>	Bonneville Environmental Foundation (e), Cascade Conservation District, Trout Unlimited	Quincy	<i>Major</i> —Columbia and Northwestern United States <i>Minor</i> —Lower Crab	Agricultural water demand reduction measures, Legal transactions to keep water in-stream, In-stream barrier removal, Operational efficiency measure, Wetland restoration and creation, Re-establish hydrologic connection	10	2018/2021	1,307,840
6	<a href="#">Restoring an urban lake in India</a> [Retired (d)]	The Nature Conservancy	Chennai	<i>Major</i> —India East Coast <i>Minor</i> —India East Coast	Wetland restoration and creation	4	2019/2022	319,000

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7	<a href="#">Protecting the Edwards Aquifer in Texas</a>	The Nature Conservancy	San Antonio	Major—Gulf Coast Minor—Medina / Upper San Antonio	Land conservation	10	2020/2020	79,000
8	<a href="#">Restoring oxbow wetlands in Iowa</a>	The Nature Conservancy	Des Moines	Major—Mississippi-Missouri Minor—Middle Des Moines; North Raccoon	Wetland restoration and creation	10	2020/2022	173,250
9	<a href="#">Increasing groundwater retention in California</a>	Plumas Corporation	Santa Clara	Major—California Minor—Coyote	Land cover restoration	10	2019/2021	359,130
10	<a href="#">Aiding Arizona's stressed Verde River</a>	The Nature Conservancy	Phoenix	Major—North America, Colorado Minor—Middle Gila; Lower Salt; Lower Gila/Painted Rock	Operational efficiency measures	10	2020/2021	386,760
11	<a href="#">Controlling wetland erosion in Wyoming</a>	US Forest Service	Cheyenne	Major—Mississippi-Missouri Minor—Crow	Land cover restoration	10	2019/2021	10,000
12	<a href="#">Learning from beavers to restore streams in Washington</a>	Trout Unlimited	Quincy	Major—Columbia and Northwestern United States Minor—Lower Crab	Wetland restoration and creation	10	2020/2022	3,553
13	<a href="#">Providing drinking water security for villages in India</a>	WaterAid	Hyderabad	Major—Krishna Minor—Musi / Aler	Rainwater harvesting	10	2019/2022	2,407,460

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14	<a href="#">Improving farm irrigation efficiency in Arizona</a>	The Nature Conservancy	Phoenix	<i>Major</i> —North America, Colorado <i>Minor</i> —Middle Gila; Lower Salt; Lower Gila/Painted Rock	Agricultural water demand reduction measures	10	2021/2022	1,669,891
15	<a href="#">Replenishing the Lower Colorado River watershed</a>	Bonneville Environmental Foundation (e), Gila River Indian Community	Phoenix	<i>Major</i> —North America, Colorado <i>Minor</i> —Middle Gila; Lower Salt; Lower Gila/Painted Rock	Wetland restoration and creation	10	2021/2022	1,196,010
16	<a href="#">Restoring water flow to the Sacramento River</a>	Bonneville Environmental Foundation (e), Chico State Enterprises	Santa Clara	<i>Major</i> —California <i>Minor</i> —Coyote	Floodplain inundation/reestablish hydrologic connection	10	2021/2022	7,996,650
17	<a href="#">Conserving land above the Edwards Aquifer in Texas</a>	Edwards Aquifer Conservancy	San Antonio	<i>Major</i> —Gulf Coast <i>Minor</i> —Medina / Upper San Antonio	Land conservation	10	2021/2021	4,207,000
18	<a href="#">Restoring groundwater supply in the Sacramento Valley</a>	Freshwater Trust	Santa Clara	<i>Major</i> —California <i>Minor</i> —Coyote	Legal transactions to keep water in-stream	8	2021/2023	703,000
19	<a href="#">Improving irrigation efficiency in Washington</a>	Columbia Basin Conservation District	Quincy	<i>Major</i> —Columbia and Northwestern United States <i>Minor</i> —Lower Crab	New water supply for crop irrigation	10	2021/2025	1,777,010
20	<a href="#">Realizing more crop per drop in Chile</a>	Bonneville Environmental Foundation (e), Kilimo	Santiago	<i>Major</i> —North Chile, Pacific Coast <i>Minor</i> —Maipo	Agricultural water demand reduction measures	4	2022/2023	1,228,717

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21	<a href="#">Improving aquifer storage in Texas</a>	Edwards Aquifer Conservancy	San Antonio	Major—Gulf Coast Minor—Medina / Upper San Antonio	Legal transactions to keep water in-stream	10	2022/2023	4,933,920
22	<a href="#">Restoring stream flows in Washington</a>	Washington Water Trust	Quincy	Major - Wenatchee River Basin Minor - Icicle Creek	In-stream barrier removal	10	2022/2025	3,090,440
23	<a href="#">Increasing wet meadow storage in Washington</a>	Chelan County	Quincy	Major—Columbia and Northwestern United States Minor—Lower Crab	Wetland restoration and creation	10	2022/2026	1,997,460
24	<a href="#">Expanding wetland pond habitat in Wyoming</a>	Laramie County Conservation District	Cheyenne	Major—Mississippi-Missouri Minor—Crow	Wetland restoration and creation	10	2022/2024	600,195
25	<a href="#">Increasing tribal farm resilience in Arizona</a>	Bonneville Environmental Foundation (e), Colorado River Indian Tribes (CRIT), N-Drip	Phoenix	Major—North America, Colorado Minor—Middle Gila; Lower Salt; Lower Gila/Painted Rock	Agricultural water demand reduction measures	10	2022/2023	3,430,889
26	<a href="#">Improving farm water use efficiency in Chile</a>	Bonneville Environmental Foundation (e), Kilimo	Santiago	Major—North Chile, Pacific Coast Minor—Maipo	Agricultural water demand reduction measures	4	2023/2023	477,387
27	<a href="#">Planting forests for a healthy watershed in Texas</a>	Texas Longleaf Team	Irving	Major—Gulf Coast Minor—Lower Trinity	Land cover restoration	10	2023/2025	3,388,779

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28	<a href="#">Detecting leaks in low-income housing in Texas</a>	Bonneville Environmental Foundation (e), Sensor Industries, Pacific Institute, local housing authorities	Irving	Major—Gulf Coast Minor—Elm Fork Trinity	Leak repair	10	2023/2023	42,198
29	<a href="#">Conserving water in hospitals in Arizona</a>	Bonneville Environmental Foundation (e), BlueCommons, City of Phoenix	Phoenix	Major—North America, Colorado Minor—Middle Gila; Lower Salt; Lower Gila/Painted Rock	Operational efficiency measures	10	2023/2026	694,620
30	<a href="#">Leasing water rights to sustain the Lower Colorado River Basin</a>	Bonneville Environmental Foundation (e), BlueCommons, Restauremos El Colorado	Phoenix	Major—North America, Colorado Minor—Middle Gila; Lower Salt; Lower Gila/Painted Rock	Agricultural water demand reduction measures	9	2023/2023	986,784
31	<a href="#">Rehabilitating a community wastewater treatment plant in Chile</a>	Fundación Chile	Santiago	Major—North Chile, Pacific Coast Minor—Maipo	Wastewater treatment plants	10	2023/2025	1,069,890
32	<a href="#">Creating oxbow lakes for aquifer recharge in Chile</a>	Fundación Chile	Santiago	Major—North Chile, Pacific Coast Minor—Maipo	Wetland restoration and creation	10	2023/2024	189,752
33	<a href="#">Installing infiltration ditches for aquifer recharge in Chile</a>	Fundación Chile	Santiago	Major—North Chile, Pacific Coast Minor—Maipo	Wetland restoration and creation	10	2023/2025	89,006
34	<a href="#">Implementing water sharing agreements in New Mexico</a>	The Nature Conservancy	Phoenix	Major—North America, Colorado Minor—Middle Gila; Lower Salt; Lower Gila/Painted Rock	Legal transactions to keep water in-stream	9	2023/2025	5,859,038

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35	<a href="#">Restoring wetlands in Qiandao Lake, China</a>	The Nature Conservancy	Shanghai	Major—China Coast Minor—Lake Tail Hu	Agricultural best management practices	8	2023/2025	2,555,368
36	<a href="#">Improving water quality in China's Lake Taihu watershed</a>	The Nature Conservancy	Shanghai	Major—China Coast Minor—Lake Tail Hu	Constructed wetland treatment systems	9	2023/2027	1,400,000
37	<a href="#">Driving holistic wetland restoration in Chile</a>	The Nature Conservancy	Santiago	Major—North Chile, Pacific Coast Minor—Maipo	Wetland restoration and creation	3	2023/2024	298,829
38	<a href="#">Clearing water-intensive invasive plants in South Africa</a>	The Nature Conservancy	Cape Town	Major—South Africa, West Coast Minor—Groot Berg	Land cover restoration	9	2023/2025	1,197,821
39	<a href="#">Using AI-enabled acoustic leak analysis to reduce water loss in London</a>	FIDO	London	Major—England and Wales Minor—Thames 1; Colne	Leak repair	10	2023/2024	6,299,033 # (f)
40	<a href="#">Restoring streams in Washington with human-made beaver dams</a>	Trout Unlimited	Quincy	Major—Columbia and Northwestern United States Minor—Lower Crab	Wetland restoration and creation	10	2023/2025	87,753
41	<a href="#">Restoring traditional agriculture to save Lake Xochimilco in Mexico</a>	Conservation International	Mexico City	Major—Rio Verde Minor—Moctezuma	Wetland restoration and creation	10	2023/2026	3,858,510

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42	<a href="#">Improving water quality for Shanghai, China</a>	Conservation International	Shanghai	Major—China Coast Minor—Lake Tail Hu	Agricultural best management practices	10	2023/2026	950,000
43	<a href="#">Conserving freshwater ecosystems in São Paulo, Brazil</a>	Conservation International	Campinas	Major—La Plata Minor—Tiete 2	Wetland restoration and creation	10	2023/2027	2,707,200
44	<a href="#">Enhancing the availability of groundwater in India</a>	WaterAid	Hyderabad	Major—Krishna Minor—Musi / Aler	Rainwater harvesting and groundwater recharge	10	2023/2026	4,446,900
45	<a href="#">Creating new wetlands to serve people and nature in London</a>	Bonneville Environmental Foundation (e), Thames21	London	Major—England and Wales Minor—Thames 1; Colne	Wetland restoration and creation	10	2023/2025	306,000
46	<a href="#">Using AI-enabled leak detection to reduce water loss in Mexico</a>	FIDO	Querétaro	Major—Rio Lerma Minor—Laja	Leak repair	10	2023/2024	838,171# (f)
47	<a href="#">Using AI enabled acoustic leak analysis to reduce water loss in Phoenix</a>	FIDO	Phoenix	Major—North America, Colorado Minor—Middle Gila; Lower Salt; Lower Gila/Painted Rock	Leak repair	10	2023/2024	1,008,870# (f)
48	<a href="#">Reducing agricultural runoff in Iowa watersheds</a>	Ducks Unlimited	Des Moines	Major—Mississippi-Missouri Minor—Middle Des Moines; North Raccoon	Wetland restoration and creation	10	2023/2025	1,720,866

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49	<a href="#">Protecting birds through wetland restoration in Spain</a>	Bonneville Environmental Foundation (e), Fundación Global Nature (FGN)	Madrid	Major—Tagus Minor—Tagus 2	Wetland restoration and creation	10	2023/2026	375,000
50	<a href="#">Improving water supply reliability in Mexico</a>	Bonneville Environmental Foundation (e), Kilimo	Queretaro	Major - Rio Lerma Minor - Laja	Agricultural water demand reduction measures	3	2024/2024	439,100
51	<a href="#">Enhancing wetland management and water quality in Texas</a>	Ducks Unlimited	Irving	Major - Gulf Coast Minor - Upper Trinity River Basin	Wetland restoration and creation	10	2024/2025	1,091,627
52	<a href="#">Improving water quality in Iowa by restoring streams</a>	The Nature Conservancy	Des Moines	Major - Mississippi - Missouri Minor - Middle Des Moines; North Raccoon	Wetland restoration and creation	10	2024/2026	110,000
53	<a href="#">Rejuvenating Handenahalli Lake in Bengaluru, India</a>	CLEAN International	Bangalore	Major - India East Coast Minor - Ponnaivar	Wetland restoration and creation	10	2024/2025	2,151,900
54	<a href="#">Improving agricultural water use efficiency in Mexico</a>	Agua Segura	Queretaro	Major - Rio Lerma Minor - Laja	Agricultural water demand reduction measures	8	2024/2024	2,089,137
55	<a href="#">Restoring critical stream flows in Washington</a>	Bonneville Environmental Foundation (e), Chelan County, Washington Water Trust, Yakama Nation	Quincy	Major - Wenatchee River Basin Minor - Icicle Creek	In-stream barrier removal	10	2024/2025	2,059,990

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56	<a href="#">Using AI to improve agricultural water use in Spain</a>	Agua Segura	Madrid	Major - Tagus Minor - Tagus 2	Agricultural water demand reduction measures	7	2024/2025	1,126,623
57	<a href="#">Restoring critical watersheds in Puerto Rico</a>	The Nature Conservancy	Guaynabo	Major - Caribbean Minor - Yabucoa / Humacao	Land cover restoration	10	2024/2027	2,973,280
58	<a href="#">Using AI-enabled acoustic leak analysis to reduce water loss in Las Vegas</a>	FIDO	Phoenix	Major - North America, Colorado Minor - Middle Gila; Lower Salt; Lower Gila/Painted Rock	Leak repair	10	2024/2025	355,639 # (f)
59	<a href="#">Promoting water stewardship in Beijing</a>	The Nature Conservancy	Beijing	Major - Ziya He, Interior Minor - Bai He; Guangting Shuiku	Agricultural best management practices	10	2024/2025	2,858,550
60	<a href="#">Transforming fish farms into restored wetlands in Israel</a>	American Society for the Protection of Nature in Israel (SPNI)	Herzliya	Major - Taninim Basin Minor - Israel Coast, West Bank	Wetland restoration and creation	10	2024/2025	557,742
61	<a href="#">Using human-made beaver dams to restore watersheds in Wyoming</a>	Trout Unlimited	Cheyenne	Major - Colorado River Basin Minor - Little Snake Watershed	Wetland restoration and creation	10	2024/2026	460,900
62	<a href="#">Using AI to make the most of water in a Bengaluru hospital</a>	FluxGen	Bangalore	Major - India East Coast Minor - Ponnaivar	Operational efficiency measures	7	2024/2025	664,323

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63	<a href="#">Restoring streams and meadows in Arizona</a>	Trout Unlimited	Phoenix	<i>Major</i> - Colorado River Basin/Salt River Basin <i>Minor</i> - Black River Basin	Land cover restoration	10	2024/2026	1,235,623
64	<a href="#">Optimizing water use with AI at St. Martha's Hospital, Bengaluru</a>	FluxGen	Bangalore	<i>Major</i> - India East Coast <i>Minor</i> - Ponnaivar	Operational efficiency measures	7	2024/2025	661,968
65	<a href="#">Reducing water loss in Madrid through acoustic leak detection</a>	Aganova	Madrid	<i>Major</i> - Tagus <i>Minor</i> - Tagus 2; Sorbe River	Leak repair	5	2024/2025	353,506 # (f)
66	<a href="#">Incentivizing water saving irrigation practices in Texas</a>	Edwards Aquifer Conservancy	San Antonio	<i>Major</i> - Gulf Coast <i>Minor</i> - San Antonio River Basin, Southern Segment of the Edwards Aquifer	Agricultural water demand reduction measures	10	2024/2026	2,642,550
67	<a href="#">Using drip irrigation to better manage farm water in Arizona</a>	Bonneville Environmental Foundation (e), Environmental Defense Fund, Bridgestone, Inc., University of Arizona, Tempe Farming Inc./Todd Thelander	Phoenix	<i>Major</i> - North America, Colorado <i>Minor</i> - Middle Gila	Agricultural water demand reduction measures	6	2024/2025	357,785
68	<a href="#">Transforming irrigation in Washington's Columbia Basin</a>	Bonneville Environmental Foundation (e), Columbia Basin Conservation District (CBCD)	Quincy	<i>Major</i> - Columbia River Basin <i>Minor</i> - Crab Creek	Agricultural water demand reduction measures	9	2024/2026	7,015,428
69	<a href="#">Bringing Pune's lakes back to life</a>	CLEAN International	Pune	<i>Major</i> - Krishna <i>Minor</i> - Ghod / Nira / Bhima / Man	Wetland restoration and creation	10	2024/2026	12,939,820

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70	<a href="#">Harvesting water from sugarcane in India</a>	Botanical Water Technologies	Nagpur	Major - Godavari Minor - Kanhan	Water reuse	3	2024/2025	180,000
71	<a href="#">Replenishing groundwater in Bengaluru, India</a>	WaterAid	Bangalore	Major - India East Coast Minor - Ponnaivar	Rainwater harvesting and groundwater recharge	10	2024/2026	2,208,765
72	<a href="#">Improving groundwater recharge in Rangareddy, India</a>	WaterAid	Hyderabad	Major - Krishna Minor - Musi	Rainwater harvesting and groundwater recharge	10	2024/2026	3,473,561
73	<a href="#">Revolutionizing park irrigation in Australia</a>	SWAN Systems	Sydney	Major - Australia, East Coast Minor - Sydney Coast / Georges; Hawkesbury	Operational efficiency measures	10	2024/2026	1,239,000
74	<a href="#">Transforming water management in Brazil</a>	Wavin Brazil	Campinas	Major - La Plata Minor - Tiete 2; Piracicaba	Operational efficiency measures	10	2024/2025	370,444# (f)
75	<a href="#">Promoting forest conservation in Beijing, China</a>	Conservation International	Beijing	Major - Ziya He, Interior Minor - Bai He	Land cover restoration	10	2025/2028	612,610
76	<a href="#">Restoring native habitat along the Colorado River in Arizona</a>	Bonneville Environmental Foundation (e), Cocopah Indian Tribe, National Audubon Society	Phoenix	Major - North America, Colorado Minor - Lower Salt	Land cover restoration	10	2025/2028	2,731,450

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77	<a href="#">Reforestation agricultural lands to revive the Roanoke River watershed</a>	Resource Environmental Solutions	Boydton	<i>Major</i> – Gulf of Mexico, North Atlantic Coast <i>Minor</i> – Middle Roanoke	Land conservation and restoration	10	2025/2026	1,380,000
78	<a href="#">Expanding water access in Jakarta, Indonesia schools through rainwater harvesting</a>	CLEAN International	Jakarta	<i>Major</i> – Java-Timor <i>Minor</i> – Cisadane	Rainwater harvesting	10	2025/2026	209,700
79	<a href="#">Improving landscape water efficiency in Carrollton, Texas schools</a>	HydroPoint Data Systems	Irving	<i>Major</i> – Gulf Coast <i>Minor</i> – Elm Fork Trinity	Operational efficiency measures	10	2025/2025	784,060
80	<a href="#">Improving stormwater quality in Cheyenne, Wyoming</a>	Frog Creek Partners	Cheyenne	<i>Major</i> – Mississippi-Missouri <i>Minor</i> – Crow	Stormwater management	10	2025/2026	510,650
81	<a href="#">Restoring cropland to native habitat in Iowa's Raccoon River watershed</a>	Resource Environmental Solutions	Des Moines	<i>Major</i> – Mississippi-Missouri <i>Minor</i> – Middle Des Moines	Land cover restoration	10	2025/2026	1,000,000
82	<a href="#">Improving water quality in Georgia through in-stream trash removal</a>	Bonneville Environmental Foundation (e), Chattahoochee Riverkeeper	Atlanta	<i>Major</i> – Gulf of Mexico, North Atlantic Coast <i>Minor</i> – Chattahoochee	Stormwater management	10	2025/2026	1,840,020
83	<a href="#">Restoring peatlands to improve water retention in Ireland's Wicklow Mountains</a>	Agua Segura (e), Peatland Finance Ireland	Dublin	<i>Major</i> – Ireland <i>Minor</i> – Liffey	Wetland restoration	10	2025/2026	711,000

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84	<a href="#">Capturing and treating stormwater in Madrid, Spain</a>	FieldFactors	Madrid	Major – Tagus Minor – Tagus 2	Constructed wetland treatment systems	10	2025/2027	2,167,040
85	<a href="#">Restoring aquatic habitat along Darebin Creek in Melbourne, Australia</a>	OzFish Unlimited	Melbourne	Major – Australia, East Coast Minor – Yarra	Aquatic habitat restoration	10	2025/2027	4,851,600
86	<a href="#">Conserving groundwater in Athens, Greece through sustainable urban irrigation</a>	Global Water Partnership	Athens	Major – Adriatic Sea-Greece-Black Sea Coast Minor – Cephissus	Operational efficiency measures	10	2025/2028	1,400,000
87	<a href="#">Reducing water loss in Johannesburg, South Africa through AI-powered pressure management</a>	GWF AG	Johannesburg	Major – Limpopo Minor – Krokodil	Operational efficiency measures	6	2025/2025	23,415# (f)
88	<a href="#">Improving irrigation efficiency on family farms in California's San Joaquin Valley</a>	Kilimo	Santa Clara	Major – California Minor – San Joaquin	Agricultural water demand reduction measures	10	2025/2026	2,500,003
89	<a href="#">Improving irrigation practices in Chile's Maipo basin</a>	Kilimo	Santiago	Major – North Chile, Pacific Coast Minor – Maipo	Agricultural water demand reduction measures	10	2025/2026	420,000
90	<a href="#">Restoring fragmented wetlands in Belgium's Flanders region</a>	Bonneville Environmental Foundation (e), Natuurpunt	Brussels	Major – Scheldt Minor – Rupel	Wetland restoration and creation	10	2025/2028	1,543,077

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91	<a href="#">Reducing water loss in Dublin, Ireland, with acoustic leak detection</a>	Aganova	Dublin	Major – Ireland Minor – Liffey	Leak repair	6	2025/2026	TBD (g)
92	<a href="#">Reducing water loss in Brussels, Belgium schools through smart monitoring</a>	Shayp	Brussels	Major – Scheldt Minor – Rupel	Leak repair	10	2025/2026	TBD (g)
93	<a href="#">Reducing water loss in public housing communities in Fort Worth, Texas</a>	Bonneville Environmental Foundation (e), Sensor Industries	Irving	Major – Gulf Coast Minor – Upper Trinity	Leak repair	7	2025/2026	358,638
94	<a href="#">Restoring streamflow and wildlife habitat in Quincy, Washington</a>	Trout Unlimited	Quincy	Major – Columbia and Northwestern United States Minor – Lower Crab	Wetland restoration and creation	10	2025/2026	550,780
95	<a href="#">Improving irrigation efficiency for public green spaces in Sydney, Australia</a>	SWAN Systems	Sydney	Major – Australia, East Coast Minor – Sydney Coast/Georges	Operational efficiency measures	10	2025/2026	750,000
96	<a href="#">Improving agricultural water efficiency in Washington</a>	Bonneville Environmental Foundation (e), Netafim	Quincy	Major – Columbia and Northwestern United States Minor – Lower Crab	Agricultural water demand reduction measures	10	2025/2026	2,163,700
97	<a href="#">Improving irrigation efficiency in the Netherlands' green spaces</a>	Bonneville Environmental Foundation (e), Sourcertainable	Amsterdam	Major – Rhine Minor – Zuiderzee	New water supply for crop irrigation	10	2025/2027	1,890,941
98	<a href="#">Restoring hydrologic connectivity in Wyoming's Douglas Creek watershed</a>	Trout Unlimited	Cheyenne	Major – Mississippi-Missouri Minor – Crow	Wetland restoration and creation	10	2025/2027	560,735

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**Footnotes:**

(a) VWBA—Volumetric Water Benefit Accounting; the activity classification is based on [Volumetric Water Benefit Accounting \(VWBA\) methodology](#). Classification may change based on third-party quantification.

(b) Benefit duration is based on third-party quantification, where applicable. While for some of the projects, the actual benefit duration can be much longer than reported in this table, considering the various environmental/social factors that may affect the longevity of a project, we claim the benefits only for the duration for which we have assurance from implementation parties (usually 10 years, unless suggested otherwise in third-party quantification).

(c) Volumes included in the table are the best available estimates over the duration of the projects, except when indicated with the symbol #; in those cases, the volume included is the volume third-party quantified through FY25. Estimated volumetric benefits have been quantified by a third-party for projects that have been operational for at least a year.

(d) Retired projects are those for which the benefit duration is over, and we are no longer claiming the benefits.

(e) Project scoping partner

(f) These volumes are the third-party quantified volume up to FY25 only. The projects are first-of-their-kind leak detection projects with large volumes and potential future variation. For other projects in the table, the estimated volume included is over the entire duration of the project.

(g) These are leak detection projects with large potential variation in volumetric benefit depending on the number and size of leaks identified. As such, we are waiting until we have validated benefits from the first year of the projects before sharing estimated annual volumetric benefits.

# Overview of water replenishment projects

## 1. Ducks Unlimited: Improving water quality in Iowa

In partnership with the Iowa Department of Agriculture and Land Stewardship (IDALS), Ducks Unlimited restored three sites in Des Moines, Iowa through the Conservation Reserve Enhancement Program, a federal-state program between IDALS and the US Department of Agriculture. Through this project, Microsoft supported the establishment of three conservation easements totaling 91 acres and 34 acres of wetlands. These wetlands will reduce nitrogen from 1,664 acres of agricultural land, and each year will remove more than 17,470 tons of nitrogen from the drainage tile in the watershed.

## 2. Audubon Great Plains: Restoring North Dakota's prairie wetlands

The Urban Woods and Prairies (UWP) Initiative is a partnership between Audubon Great Plains and multiple local landowning entities aimed at restoring and enhancing riparian grassland, wetland, and woodland habitats in the Saskatchewan-Nelson basin, located in the Fargo-Moorland area of North Dakota. Many UWP sites contain small wetlands that provide some of the only filtration and storage of water in the area. Through the UWP Initiative, prairie sites are restored with native vegetation, positively affecting water storage and filtration. Microsoft also supported the Heritage Hills Park Restoration, the Oakport Wetland Restoration, and a re-vegetation volunteer event in the Fargo area.

## 3. Bonneville Environmental Foundation<sup>(e)</sup>, Gila River Water Storage: Bringing renewable water supplies to central Arizona

In partnership with Bonneville Environmental Foundation, this project supports Gila River Water Storage (GRWS), created by the Gila River Indian Community and Salt River Project, to address mounting challenges to secure dependable, renewable water supplies in central Arizona. GRWS provides 5 million acre-feet of reliable, renewable water supplies to residential, industrial, and municipal users. Microsoft purchased long-term storage credits from GRWS and donated them to the cities of Goodyear and El Mirage.

#### **4. Bonneville Environmental Foundation (<https://e>), Colorado River Indian Tribes, Arizona Department of Water Resources: Improving water security for the Lower Colorado River Basin**

In partnership with Bonneville Environmental Foundation and supporting Arizona's Drought Contingency Plan, this project compensates the Colorado River Indian Tribes (CRIT) with lands along the Lower Colorado River for up to 150,000 acre-feet of water saved—helping reduce demand and stabilize Lake Mead water levels. In exchange for monetary compensation from stakeholders, including Microsoft, the CRIT pledged to forgo irrigation water deliveries and fallow approximately 10,000 acres of farmland, contributing to an approximately two-foot increase in lake depth and helping shore up water supplies for Lake Mead and the Lower Colorado River Basin.

#### **5. Bonneville Environmental Foundation (<https://e>), Cascade Conservation District, Trout Unlimited: Boosting water supply reliability for the Columbia Basin**

Bonneville Environmental Foundation partnered with several organizations, including Cascade Conservation District, Trout Unlimited, and Microsoft, on three water restoration projects that collectively replenish an estimated 25.6 million gallons of water annually in the Columbia River Basin in central Washington. One project removed two diversions from Roaring Creek, improving irrigation efficiency and reliability while also improving habitat for several ESA-listed salmon and trout species. An aquatic habitat restoration project in the Wenatchee and Entiat sub-basins is installing up to 60 beaver dam analogs, which help mitigate against destructive effects of flooding, drought, and wildfire. And another project in Wenatchee and Entiat sub-basins helps improve water use in pear orchards through irrigation upgrades and efficiency strategies.

#### **6. The Nature Conservancy: Restoring an urban lake in India**

The Nature Conservancy India is restoring Sembakkam Lake in Chennai, India, to help improve water quality, storage capacity, and groundwater recharge potential in the surrounding areas. The restoration includes establishing an in-situ nature-based wastewater treatment system at the lake using a constructed wetland system that will treat 6 to 7 million liters of wastewater entering the lake per day. Supported by Microsoft, the project will also lead to improved biodiversity habitat and build a connection between community and the wetland by creating a waterfront that offers a natural recreation place.

## **7. The Nature Conservancy: Protecting the Edwards Aquifer in Texas**

The Cibolo Bluffs Nature Preserve, located near San Antonio, Texas, was established by The Nature Conservancy to help protect the Edwards Aquifer, an essential water source for over 2 million central Texans. In 2014, The Nature Conservancy expanded the preserve by acquiring a 1,521-acre tract of land located within the Edwards Aquifer recharge zone, further protecting flows into the aquifer. The land is now owned and managed by The Nature Conservancy as part of the permanently protected nature preserve. Funding from Microsoft was used to help pay off the \$2.8 million Land Preservation Fund loan for the newly acquired land, guaranteeing the ongoing protection and ecological health of the Cibolo Bluffs Nature Preserve.

## **8. The Nature Conservancy: Restoring oxbow wetlands in Iowa**

The Nature Conservancy and its partners are working to improve the hydrology, biodiversity, and quality of the Boone River watershed north of Des Moines, Iowa. This work includes restoring oxbows, former stream meanders cut off from the main flow of water. Oxbows can absorb flooding, filter out nitrates from agricultural runoff, and provide valuable habitat for wildlife such as the endangered Topeka shiner minnow. This project is restoring 10 oxbows and will create a restoration toolkit and training for other conservation providers across the state. Benefits include reducing flood risk and improving drinking water quality for downstream communities in the Greater Des Moines metro area and beyond.

## **9. Plumas Corporation: Increasing groundwater retention in California**

With support from Microsoft, Plumas Corporation is restoring the channel-floodplain connectivity within East Creek meadow, part of the 7,500-acre Mountain Meadows complex in Lassen County, California, at the headwaters of the North Fork Feather River. By mostly filling the creek's main channel and two side channels, this project allows spring runoff to spread out over the surface of the meadow, increasing groundwater retention and reducing the effects of flooding and erosion. Increasing the environmental water will help maintain healthy ecosystems and is expected to improve species richness, increasing native riparian vegetation and fauna that depend on the meadow habitat.

## **10. The Nature Conservancy: Aiding Arizona's stressed Verde River**

The Nature Conservancy is reducing the amount of water diverted from the highly stressed Verde River in Arizona, enhancing river flows and supporting fish and wildlife habitat. This project involved the installation of 2,650 feet of HDPE pipe in the leakiest section of Eureka Ditch, an eight-mile earthen irrigation ditch that serves 375 acres in the Verde Valley. As a result of this piping project, water is more efficiently conveyed to farms and diversions from the Verde River are reduced.

### **11. US Forest Service: Controlling wetland erosion in Wyoming**

This US Forest Service project was designed to decrease erosion and sedimentation to better protect sensitive wetland habitats and watersheds downstream of the Pole Mountain Area, a 55,000-acre high elevation recreation area located in the Medicine Bow-Routt National Forest of southeastern Wyoming. The US Forest Service and National Forest Foundation contractors and partners removed and decommissioned several road segments, restoring the acres by reseeding with native seed mix, hand-planting trees, and placing erosion control matting and straw mulch.

### **12. Trout Unlimited: Learning from beavers to restore streams in Washington**

Trout Unlimited, in partnership with Microsoft, the US Fish and Wildlife Service, and the Natural Resource Conservation Service, is building and installing low-tech restoration structures, including beaver dam analogs and post-assisted log structures, at two primary sites in Rock Island Creek in Douglas County, Washington. Each structure will increase wetland area and groundwater infiltration in the area behind each structure. Trout Unlimited estimates approximately 0.8 acre-feet per year of total water benefits associated with increased infiltration from the construction of the 24 structures. The enhancements will increase habitat and benefit a variety of native fish, wildlife, and vegetation, especially Upper Columbia summer steelhead trout and greater sage-grouse.

### **13. WaterAid: Providing drinking water security for villages in India**

WaterAid enhanced the availability of safe drinking water year-round in water-scarce Gulbarga and Raichur districts in India. Partnering with 30 villages in the districts, WaterAid demonstrated solutions to ensure community-led drinking water security through groundwater recharge and effective management of available water sources. The project included building rainwater harvesting and groundwater recharge structures and restoring additional drinking water sources, such as dug wells, to enhance water sustainability, as well as a pilot on managed aquifer recharge. Additional training of village councils and individuals helped to inform and guide the local administration in future groundwater replenishment efforts.

### **14. The Nature Conservancy: Improving farm irrigation efficiency in Arizona**

The Nature Conservancy is working with the Yavapai-Apache Nation (YAN) to improve its agricultural irrigation efficiency in the Verde Valley of central Arizona. With support from Microsoft, the project is installing a 30-acre center pivot irrigation system on the YAN's Upper Cloverleaf Fields. Replacing the inefficient flood irrigation method with a center pivot will reduce water use by nearly 25%, helping to preserve flows for municipal water supplies in the Phoenix area. The irrigation infrastructure improvements will also help the success of the YAN's agricultural operations, improving sustainability in their water use and allowing them to produce crops more efficiently.

### **15. Bonneville Environmental Foundation<sup>(e)</sup>, Gila River Indian Community: Replenishing the Lower Colorado River watershed**

Bonneville Environmental Foundation and Microsoft are partnering with the Gila River Indian Community (GRIC) in central Arizona on water replenishment in the Lower Colorado River watershed. GRIC has developed managed aquifer recharge (MAR) sites to achieve riparian restoration, wetland habitat, and aquifer recharge benefits on the Community's Reservation. The project delivered 1,000 acre-feet of Central Arizona Project water to GRIC's MAR 1B site. The water recharged at the MAR sites generates long term storage credits which GRIC is able to retire, ensuring that the water would benefit the aquifer.

### **16. Bonneville Environmental Foundation<sup>(e)</sup>, Chico State Enterprises: Restoring water flow to the Sacramento River**

Bonneville Environmental Foundation and Microsoft are partnering with Chico State Enterprises (CSE), a non-profit auxiliary of California State University, which designates and implements habitat restoration projects on the Sacramento River and its tributaries. CSE collaborates with the Sacramento River Forum and the US Bureau of Reclamation to restore spawning and rearing habitat through the Upper Sacramento River Anadromous Fish Habitat Restoration Program. The primary objective of this project is to restore flow to the East Sand Slough side channel of the Sacramento River by excavating the current channel. Excavation will allow for the channel to be inundated even under the Shasta Dam winter low flow regime, forming habitat for critically endangered winter run Chinook salmon juveniles during rearing.

### **17. Edwards Aquifer Conservancy: Conserving land above the Edwards Aquifer in Texas**

The Edwards Aquifer Conservancy works to protect and enhance historic recharge of the Edwards Aquifer, the primary water source for residential, agricultural, commercial, and industrial use in eight counties of south-central Texas. With support from Microsoft, the project is acquiring conservation easements over 1,186 acres within the Edwards Aquifer recharge zone, with a targeted emphasis on lands that are most likely threatened by rapid development or negative management practices. This acquisition will protect, on average, 0.6 acre-feet of recharge per acre protected, with the potential to increase average recharge rates over time through the establishment of beneficial land management practices.

### **18. Freshwater Trust: Restoring groundwater supply in the Sacramento Valley**

The Freshwater Trust and Upstream Tech have analyzed groundwater recharge opportunities in California's Sacramento Valley to help improve groundwater challenges. The Freshwater Trust will enter into an agreement with one or more local agricultural water users to achieve water replenishment, through distributed agricultural practices that augment surface or groundwater supply and/or reduce surface or groundwater demand. Project types include Managed Aquifer Recharge (MAR), Water Use Efficiency (WUE), and Cropland Repurposing projects. 19. Columbia Basin Conservation District: Improving irrigation efficiency in Washington

## **19. Columbia Basin Conservation District: Improving irrigation efficiency in Washington**

The Columbia Basin Conservation District is planning, designing, and implementing irrigation infrastructure in the Columbia River Basin of central Washington. Farmers in the Odessa subarea are currently relying on a rapidly declining aquifer with poor water quality making it not only expensive but also threatening reliable irrigation water for approximately 80,000 acres. The Odessa Groundwater Replacement Program, when completed, will deliver surface water from the Columbia River replacing the existing unsustainable groundwater source. In addition to conserving 240,000 acre-feet of groundwater from withdrawals annually, the project will provide a 10% increase in irrigation efficiency, reliable groundwater to municipal and industrial users, and will help the region become more water resilient.

## **20. Bonneville Environmental Foundation<sup>(e)</sup>, Kilimo: Realizing more crop per drop in Chile**

With support from a partnership between Bonneville Environmental Foundation and Microsoft, Kilimo is engaging with local farmers in the Maipo Basin near Santiago, Chile, to improve their water use efficiency. Kilimo supplies precision agriculture technology that supports real-time moisture and irrigation management for farmers with high-value crops. The project will decrease the amount of water pumped or diverted to irrigate those farms, conserving use in the watershed of Santiago.

## **21. Edwards Aquifer Conservancy: Improving aquifer storage in Texas**

Under the auspices of the Edwards Aquifer Authority, the Edwards Aquifer Conservancy (EAC) works to protect and enhance historic recharge of the Edwards Aquifer, the primary water source for residential, agricultural, commercial, and industrial use in eight counties of south-central Texas. In partnership with Microsoft, the EAC is leasing groundwater rights to forbear pumping of 400 acre-feet annually for 10 years. This project enhances San Antonio's water resilience by improving springflow and aquifer storage and benefits freshwater ecosystems associated with the aquifer.

## **22. Washington Water Trust: Restoring stream flows in Washington**

Together with Washington Water Trust, Microsoft is supporting restoration of critical stream flows in Icicle Creek, a priority tributary to the Wenatchee River in central Washington. Washington Water Trust is working with Cascade Orchards Irrigation Company to modernize their delivery system with a new intake point, pumping facilities, and buried pipelines replacing an open-ditch network. The project will restore 2,698 acre-feet of permanent annual flow to Icicle Creek, a top-tier restoration priority for threatened salmon and steelhead populations and help improve sustainability at the Leavenworth National Fish Hatchery.

### **23. Chelan County: Increasing wet meadow storage in Washington**

The Chelan County Natural Resource Department is partnering with Microsoft to restore the hydrologic function of Camas Meadows, located in the Wenatchee River watershed in north-central Washington. This meadow habitat has lost much of its natural water storage capacity due to various historical human activities such as channel incision and livestock grazing. This project restores the natural processes that form and maintain seasonally wet meadow habitat that supports sensitive plant species, provides water storage and delivery of cold water to downstream areas at critical periods in the water year, and is resilient to disturbances from a changing climate. Camas Meadows is critical habitat to two state and federally endangered plant species: the Wenatchee Mountains checkermallow and the Wenatchee larkspur.

### **24. Laramie County Conservation District: Expanding wetland pond habitat in Wyoming**

With support from Microsoft, the Laramie County Conservation District is improving the drainage capability of Dry Creek in Cheyenne, Wyoming. By enlarging an existing shallow wetland pond in the Cheyenne Business Park Natural Area, the project increases the pond's capacity for holding erosive stormwater runoff and capturing sediments and urban pollutants. Benefits from the project include improved water quality and carbon sequestration, aquatic and riparian habitat improvements, and more recreational opportunities.

### **25. Bonneville Environmental Foundation<sup>(e)</sup>, Colorado River Indian Tribes (CRIT), N-Drip: Increasing tribal farm resilience in Arizona**

In collaboration with Bonneville Environmental Foundation and Microsoft, the Colorado River Indian Tribes (CRIT) and N-Drip are installing precision drip irrigation on 1,600 acres of CRIT agricultural land along the lower Colorado River in Arizona. Compared to conventional flood irrigation, drip irrigation is a very efficient method that provides a slow-moving supply of water directly to the soil, significantly reducing evaporation and runoff. By assisting CRIT with conversion to drip irrigation, this project will increase resilience for tribal farm operations while improving surface water management and storage and improving climate adaptation and sustainability.

### **26. Bonneville Environmental Foundation<sup>(e)</sup>, Kilimo: Improving farm water use efficiency in Chile**

With support from a partnership between Bonneville Environmental Foundation and Microsoft, Kilimo is engaging with local farmers in the Maipo Basin near Santiago, Chile, to improve their water use efficiency. Expanding upon an existing drip irrigation project with Kilimo, this project will support the use of AI and site-specific data to improve irrigation management on 200 hectares per year of private irrigated family farms. The system can provide tailored irrigation schedules for a variety of high-value crops, helping farmers to decrease groundwater pumping and diversion of surface water.

## **27. Texas Longleaf Team: Planting forests for a healthy watershed in Texas**

The Texas Longleaf Team partnered with Texan by Nature to restore longleaf pine forest in the Trinity River Basin in Texas. The native longleaf pine is essential to the ecosystem of East Texas because it filters and stores freshwater, sequesters carbon, supports biodiversity, and benefits the community. This project uses strategic land management with invasive brush species removal and prescribed fire to restore 2,000 acres of longleaf pine ecosystem to optimal condition. Additionally, approximately 100,000 longleaf pine seedlings will be planted, and a diverse understory of plants will be seeded and developed.

## **28. Bonneville Environmental Foundation<sup>(e)</sup>, Sensor Industries, Pacific Institute, and local housing authorities: Detecting leaks in low-income housing in Texas**

, Bonneville Environmental Foundation is working to improve water resiliency in the Dallas-Fort Worth area, Texas. A partnership between the Foundation's Business for Water Stewardship, Sensor Industries, Pacific Institute, and local housing authorities is installing 441 leak detection sensors for toilets in multi-family, low-income housing developments. The sensors have a 10-year lifetime and will allow for real-time monitoring of leaks, enabling prompt response from maintenance to minimize water loss.

## **29. Bonneville Environmental Foundation<sup>(e)</sup>, BlueCommons, and the City of Phoenix: Conserving water in hospitals in Arizona**

Bonneville Environmental Foundation is partnering with BlueCommons and the City of Phoenix to conserve water in the Phoenix, Arizona metro area. For health and safety reasons, hospitals have "hardened demand" for water, meaning they are unable to quickly reduce their need for water even in shortage conditions. BlueCommons is providing revolving loans to hospitals in Phoenix to cover the cost of retrofitting industrial cooling systems. The upgraded systems will significantly reduce water use and costs for the hospitals, supporting municipal water conservation efforts in Arizona in the face of continued water shortage in the Lower Colorado River Basin.

## **30. Bonneville Environmental Foundation<sup>(e)</sup>, BlueCommons, Restauremos El Colorado: Leasing water rights to sustain the Lower Colorado River Basin**

Bonneville Environmental Foundation is partnering with organizations including BlueCommons and Restauremos El Colorado on its Lower Colorado River Resilience project to conserve water in Lake Mead and support water resilience in Arizona and the Lower Colorado River Basin. The project includes a revolving suite of interventions that bring together water leasing, habitat restoration, environmental flows, and private and public sector investment to increase water resilience in the Lower Colorado River. The initial phase aims to secure over 10,000 acre-feet of water for

Lake Mead within three years through leases with water rights holders. This project will help maintain necessary reservoir levels in Lake Mead in the near term while laying the foundation for long-term resilience solutions.

### **31. Fundación Chile: Rehabilitating a community wastewater treatment plant in Chile**

Fundación Chile is partnering with the municipality of Curacaví to improve water sustainability and resiliency in the Maipo River Basin near Santiago, Chile. This project is rehabilitating a system to treat effluent, liquid waste or sewage, from the Curacaví community wastewater treatment plant, which is not meeting legislative standards. The rehabilitated system will produce treated water with sufficient quality for safe use by farmers, ranchers, and the area's ecosystem. This project will increase available water in this highly stressed location, aid in ecological conservation, and serve as a replicable project that can be adopted in other parts of Chile.

### **32. Fundación Chile: Creating oxbow lakes for aquifer recharge in Chile**

Fundación Chile is partnering with the municipality of Maipú and University of Chile in the Maipo River Basin near Santiago, Chile to create oxbow lakes in strategic topographic areas particularly exposed to flooding. The lakes will prevent the immediate loss of water either by runoff or evaporation, improving the recharge of the Maipo aquifer, which supports drinking water for more than 670,000 people. By facilitating the collection, storage, and infiltration of rainwater, this project improves water supply and ecosystem services and helps increase biodiversity.

### **33. Fundación Chile: Installing infiltration ditches for aquifer recharge in Chile**

Fundación Chile is partnering with the municipality of Maipú and University of Chile in the Maipo River Basin near Santiago, Chile to install infiltration ditches in strategic topographic areas particularly exposed to flooding, recharging the Maipo aquifer with the collected water. This project avoids the mechanical dragging effect of rainwater that can affect growing crops, reducing soil loss due to erosion. It helps to control loss of water, establish native vegetation, and above all allow for additional infiltration of water into local aquifer systems that supply more than 670,000 people with drinking water.

### **34. The Nature Conservancy: Implementing water sharing agreements in New Mexico**

The Nature Conservancy is partnering with the Jicarilla Apache Nation and the New Mexico Interstate Stream Commission (NMISC) to benefit threatened and endangered fish and increase water security on the San Juan River in New Mexico. The Nature Conservancy worked with its partners to design and implement a first-of-its kind water sharing agreement that allows the NMISC to lease up to 20,000 acre-feet of water per year from the Nation to benefit threatened, endangered, and sensitive fish species and increase water security for New Mexico. This project

demonstrates that Tribal water sharing agreements can enhance the economic and social resilience of Tribal communities, help resolve water scarcity in the Colorado River Basin and improve the health of the San Juan River. Water contracted by the NMISC under the agreement will be used in the New Mexico Strategic Water Reserve (which allows for ecological and compact compliance uses) and will be released from Navajo Reservoir into the San Juan River.

### **35. The Nature Conservancy: Restoring wetlands in Qiandao Lake, China**

The Nature Conservancy launched the Qiandao Lake Water Fund in 2018 to provide systematic solutions for water stress of Qiandao Lake in Zhejiang Province, China. The Nature Conservancy is collaborating with the local community, NGOs, and research institutes to establish inlet-lake wetland restoration pilot sites and to explore nature-modelling restoration methods, laying the foundation for large-scale application. The project promotes agricultural best management practices targeting non-point source pollution (from pesticides/herbicides and fertilizers) and soil erosion through the three most widely cultivated crops—hickory, tea, and citrus. Additionally, up to two hectares of wetland treatment systems are being restored and constructed in one key sub-watershed of Qiandao Lake.

### **36. The Nature Conservancy: Improving water quality in China's Lake Taihu watershed**

The Nature Conservancy is promoting water stewardship in China's Lake Taihu watershed by developing source water pollutant reduction and wetland systems interception approaches. These approaches include implementing regenerative agriculture practices and constructing eco-buffering infrastructure such as wetlands, which help control non-point source pollution and runoff in rural farming areas. Long term, the project will systematically improve water quality, the aquatic ecosystem, biodiversity, and ecology by scaling up agricultural management best practices and eco-buffering infrastructure.

### **37. The Nature Conservancy: Driving holistic wetland restoration in Chile**

The Nature Conservancy is partnering with key stakeholders in Chile to drive a holistic effort for water sustainability in the Maipo River Basin and High Andean wetlands around Santiago. This project includes on-the-ground wetland conservation efforts and the promotion of public policy to protect these key ecosystems to strengthen collective action and drive scientific research. Working with local organizations and scientific partners, The Nature Conservancy will select 30 hectares of wetlands to conduct scientific studies and restoration activities as a demonstration project. From this project, The Nature Conservancy will develop a best practices handbook to share among landowners, encouraging engagement in conservation activities and long-term management.

### **38. The Nature Conservancy: Clearing water-intensive invasive plants in South Africa**

The Nature Conservancy partnered with CapeNature and the City of Cape Town to create the Greater Cape Town Water Fund, which aims to restore biodiversity and secure the long-term water supply for people and nature in the greater Cape Town region of South Africa. A key goal of the Fund is to increase regional water supply collection by removing water-guzzling invasive plant species. As of June 2023, the project has cleared a total of 43,191 hectares: 29,822 new hectares towards the 2026 target, of which 13,369 hectares were followed up at least once. Microsoft's support will go towards clearing invasive species on 150 hectares in priority sub-catchments of the Theewaterskloof dam in the Western Cape Water Supply System.

### **39. FIDO: Using AI-enabled acoustic leak analysis to reduce water loss in London**

Microsoft is partnering with FIDO Tech to reduce water loss from leaks in the aging water distribution network of London, England. The project uses FIDO's AI-enabled acoustic leak analysis to identify and track leaks over a distance of 350 km within the Thames Water network. Once leaks are identified, the local water utility, Thames Water, will conduct repairs. Over a 10-year period, FIDO will track volumetric benefits alongside other complementary benefits, including greenhouse gas reductions.

### **40. Trout Unlimited: Restoring streams in Washington with human-made beaver dams**

Working with the National Resources Conservation Service and the US Fish & Wildlife Service, Trout Unlimited is expanding its watershed restoration work in Rock Island Creek in Douglas County, Washington. In partnership with Microsoft, the project is installing up to 105 beaver dam analogue structures throughout one mile of Rock Island Creek. These structures help to restore aquatic habitat, create pools and ponds, induce channel meandering, reduce channel incision, and expand floodplain and wet meadow habitat using low-tech process-based restoration practices. Beyond the habitat enhancement, an estimated range of 3-4 acre-feet of groundwater will be stored annually following implementation.

### **41. Conservation International: Restoring traditional agriculture to save Lake Xochimilco in Mexico**

Conservation International is working to conserve and restore the Lake Xochimilco wetlands in Mexico City, Mexico. The Lake Xochimilco ecosystem is the last natural remnant of the Valley of Mexico lagoon system, which has been severely modified by urbanization, resulting in water pollution and endangering biodiversity. This project implements a model called Refugio-Chinampa, designed to protect this ecosystem through various conservation measures, such as restoration of the traditional *chinampa* wetland agricultural technique, planting of native species, and employing biofilters to improve water quality. The Xochimilco wetland is home to 5% of Mexico's described species—including the endemic Mexican axolotl salamander, an emblematic critically endangered amphibian species. Already in effect for five years, the project is expanding its reach through support from Microsoft to incorporate more local farmers and a larger wetland restoration area.

#### **42. Conservation International: Improving water quality for Shanghai, China**

Built to control, retain, and store freshwater from the Huangpu River, the Jinze Reservoir on Shanghai's western edge is facing challenges in pollution from agricultural activities and insufficient treatment of domestic wastewater in the surrounding area. Conservation International aims to improve Jinze Reservoir's water quality by demonstrating and promoting practical on-the-ground solutions to reduce pollution. The project's solutions include a restored, artificial wetland system that can treat 100,000 cubic meters of water annually.

#### **43. Conservation International: Conserving freshwater ecosystems in São Paulo, Brazil**

Conservation International is working to conserve and restore freshwater ecosystems in the micro-basins of Campinas, a municipality in São Paulo state, Brazil. The micro-basin is an important source of water for São Paulo but extreme drought events in recent years have significantly reduced available water in this basin. With support from Microsoft, this project involves direct improvements in public control and enforcement capacity, the creation of at least 500 hectares of new protected areas, restoration in at least 500 hectares through inputs and technical assistance, and monitoring of the areas to evaluate water and other benefits.

#### **44. WaterAid: Enhancing the availability of groundwater in India**

WaterAid is partnering with Microsoft to ensure the sustainable availability of groundwater in the Deccan region of India. This project will harvest rainwater and enhance the availability of groundwater in water-stressed regions through artificial groundwater recharge. Envisioned as a three-year program, WaterAid will scale this project into the Hyderabad district of Telangana state and expand its work in Raichur and Gulbarga districts of North Karnataka. In Hyderabad, this project will cover 25 residential welfare associations and create profound impact at the district level.

#### **45. Bonneville Environmental Foundation<sup>(e)</sup>, Thames21: Creating new wetlands to serve people and nature in London**

Bonneville Environmental Foundation and Thames21 are partnering to restore wetlands across London and the Thames River Basin in England. Thames21 is creating new wetlands in Watling Park in the London Borough of Barnet that will reconnect Burnt Oak Brook to the surrounding landscape, creating a thriving blue/green space with a network of paths that will provide opportunities for nature-connection and learning. The project helps to meet a demand for biodiverse urban green space and serves a densely populated urban area. A wetland on this site will reduce flood risk in a heavily urbanized (and highly deprived) area of London in the Silk Stream catchment.

#### **46. FIDO: Using AI-enabled leak detection to reduce water loss in Mexico**

Microsoft is partnering with FIDO Tech to reduce water loss from leaks in the aging water distribution network of Querétaro, Mexico. The project uses FIDO's AI-enabled acoustic leak analysis to identify and track leaks over a distance of 350 km within the network. Once leaks are identified, the local water utility, CEA Querétaro, will conduct repairs. Over a 10-year period, FIDO will track volumetric benefits alongside other complementary benefits, including greenhouse gas reductions.

#### **47. FIDO: Using AI-enabled acoustic leak analysis to reduce water loss in Phoenix**

Microsoft is partnering with FIDO Tech to reduce water loss from leaks in the aging water distribution network of the south metropolitan area of Phoenix, Arizona. The project uses FIDO's AI-enabled acoustic leak analysis to identify and track leaks over a distance of 350 km within the network. Once leaks are identified, the local water utility, EPCOR Water, will conduct repairs. Over a 10-year period, FIDO will track volumetric benefits alongside other complementary benefits, including greenhouse gas reductions.

#### **48. Ducks Unlimited: Reducing agricultural runoff in Iowa's watersheds**

Ducks Unlimited is working with the Iowa Department of Agriculture and Land Stewardship (IDALS) to restore water quality to wetlands in Iowa. To meet Iowa's Nutrient Reduction Strategy goal of 45% nitrate reduction in rivers and streams, IDALS estimates the need for at least 5,000 Conservation Reserve Enhancement Program (CREP) wetlands capable of treating runoff from 5–10 million acres of agricultural lands in the Des Moines Lobe. Ducks Unlimited is delivering 3–8 CREP wetlands restorations, including constructing approximately 45 to 55 acres of wetlands supporting a drainage basin of more than 6,000 acres.

#### **49. Bonneville Environmental Foundation<sup>(e)</sup>, Fundación Global Nature (FGN): Protecting birds through wetland restoration in Spain**

Bonneville Environmental Foundation and Fundación Global Nature (FGN) are partnering to restore and conserve the wetlands of Soto Gutiérrez in Ciempozuelos, Spain. This wetland is a breeding, feeding, migratory stop and sanctuary for at least 224 bird species, all of which are classified as vulnerable or in danger of extinction. The Foundation and FGN are acquiring and enhancing an 11-hectare wetland to maximize biodiversity, improve the water quality, and create public benefits. Benefits will include fencing and walkways to control access, habitat protection, and interpretive signage for public education.

## **50. Bonneville Environmental Foundation<sup>(e)</sup>, Kilimo: Improving water supply reliability in Mexico**

With support from a partnership between Bonneville Environmental Foundation and Microsoft, Kilimo will engage with local farmers in the Rio Laja basin near Queretaro, Mexico, to improve their water use efficiency. Kilimo supplies precision agriculture technology for farmers with high-value crops. The project will support expanded applications of IoT satellite moisture and irrigation management systems on 900 hectares of private irrigated family farms to decrease water pumping and diversion for up to a 20% reduction in water withdrawal from surface and/or groundwater sources, along with decreased pumping costs for farmers and associated carbon reductions from electric power use.

## **51. Ducks Unlimited: Enhancing wetlands management and water quality in Texas**

Since 1987, Ducks Unlimited and the Texas Parks & Wildlife Department have been working to enhance water control infrastructure in the Richland Creek Wildlife Management Area (WMA), part of the Trinity River floodplain in Freestone County, Texas. The WMA provides important water quality improvements for the Richland Chambers Reservoir and the communities that depend on it. The Wildcat Marsh enhancement project will add management capacity to 111 acres on the WMA, enabling managers to facilitate water quality enhancements in the Trinity River while expanding public recreation opportunities. Other benefits include optimizing habitat for waterfowl and alligator gar spawning.

## **52. The Nature Conservancy: Improving water quality in Iowa by restoring streams**

The Nature Conservancy and its partners are working to improve the hydrology, biodiversity, and quality of the Boone River Watershed north of Des Moines, Iowa. This work includes restoring oxbows, former stream meanders cut off from the main flow of water, which can filter out nitrates from agricultural runoff and provide valuable habitat for wildlife. This project will restore 10 degraded oxbow wetlands in the watershed, which is expected to capture and filter an estimated 500 acres of runoff, and provide 5 acres of critical wetland habitat and 10 acres of native prairie habitat. The project directly benefits downstream communities, such as Des Moines, by reducing flood risk and improving water quality, as well as providing an out-of-stream watering source for livestock and improved recreation opportunities.

## **53. CLEAN International: Rejuvenating Handenahalli Lake in Bengaluru, India**

CLEAN International is partnering with Microsoft to rejuvenate Handenahalli Lake in Bengaluru, India. This project aims to increase storage capacity of the lake and groundwater infiltration, thus enhancing water availability to the local community for crop irrigation and domestic purposes. This project is a part of a city-wide effort to restore local lakes, with additional support from local volunteers and Bengaluru-based environmental group SayTrees. Restoration efforts include dewatering and desilting 19 acres of Handenahalli Lake and planting 500 trees around the lake.

#### **54. Agua Segura: Improving agricultural water use in Mexico**

In partnership with local organization Nuup, Agua Segura will work to improve agricultural water use on 150 hectares in the state of Guanajuato, Mexico. Supported by Microsoft, the project involves enhancing water infrastructure in fields, helping to improve irrigation efficiency, increase crop yields, and prevent crop disease. The project will also provide technical support to farmers and recommend farm-specific irrigation improvement measures based on an assessment of current irrigation systems and baseline water use. Water use is monitored through farm visits and measurements to ensure water savings are retained over time.

#### **55. Bonneville Environmental Foundation<sup>(e)</sup>, Washington Water Trust, Cascade Orchards Irrigation Company: Restoring critical stream flows in Washington**

Bonneville Environmental Foundation is partnering with Microsoft to expand an existing restoration project for critical stream flows in Icicle Creek in Chelan, Washington. In collaboration with Washington Water Trust and Cascade Orchards Irrigation Company, this project is modernizing their delivery system with a new intake point, pumping facilities, and buried pipelines replacing an open-ditch network. The project will restore 2,698 acre-feet of permanent annual flow to Icicle Creek, contributing to the health of threatened local salmon and steelhead fish populations.

#### **56. Agua Segura: Using AI to improve agricultural water use in Spain**

In partnership with Agrow Analytics, Agua Segura will work to reduce agricultural water use on approximately 200 hectares of farmland in Madrid, Spain. Agrow Analytics' AI-based technology will use satellite, climate, soil, crop, sensor, and farm-level data to provide irrigation recommendations to help farmers reduce agricultural water use. Agrow Analytics will also engage with farmers and provide further support through monitoring and technical assistance.

#### **57. The Nature Conservancy: Restoring critical watersheds in Puerto Rico**

The Nature Conservancy is partnering to improve watershed restoration in Puerto Rico. This project will restore 1,100 hectares of the degraded Guayanes-Humacao watersheds and reduce pollutant load and sediment while improving water quality through active restoration interventions, sustainable agroforestry practices, and forest conservation. Additionally, The Nature Conservancy will plant over 60,000 native tree species as a part of this effort.

### **58. FIDO: Using AI-enabled acoustic leak analysis to reduce water loss in Nevada**

Microsoft is partnering with FIDO Tech to reduce water loss caused by leaks in two water distribution networks in Las Vegas, Nevada. The project uses FIDO's AI-enabled acoustic leak analysis to identify and track leaks across 500 km of pipeline operated by the Las Vegas Valley Water District and the City of North Las Vegas. Once leaks are identified, the local water utility will conduct repairs. Over a 10-year period, FIDO will monitor the volumetric benefits achieved, alongside other complementary benefits, including greenhouse gas reductions.

### **59. The Nature Conservancy: Promoting water stewardship through regenerative agriculture in Beijing**

The Nature Conservancy will oversee the implementation of regenerative agriculture practices across 1,000 hectares of winter wheat in water-stressed areas of the Ziya River basin, where conventional agriculture practices, such as deep ploughing and monocropping, resulted in a reduction in soil water retention. The project also plans to control non-point source pollution from fertilizers and domestic wastewater discharges by constructing and maintaining a small agricultural wetland. Additionally, The Nature Conservancy will establish a regenerative agriculture outreach center for farmers which will provide tools, workshops, field training, and operation manuals.

### **60. Society for the Protection of Nature in Israel (SPNI): Transforming fish farms into restored wetlands in Israel**

The Society for the Protection of Nature in Israel (SPNI) is partnering with the Maagan Michael Kibbutz and Microsoft on a commercial fishponds rewilding effort to decommission commercial fishponds and return the surrounding land to its natural hydrology and wetland state. This project will drain and reshape the ponds, remove fish farming infrastructure, install water conveyance systems to flood the former fishponds, adjust depth, and plant indigenous vegetation. The wetland will reduce pollution from the Tananim River and improve local biodiversity. Additionally, the project will result in a carbon reduction of 32 tons per hectare of rewilded fishponds.

### **61. Trout Unlimited: Using human-made beaver dams to restore watersheds in Wyoming**

Trout Unlimited (TU) is partnering with the Bureau of Land Management, Wyoming Game and Fish, Wyoming Wildlife and Natural Resource Trust, the City of Cheyenne, Wyoming and Microsoft to bolster drought resilience in the Little Snake River watershed using Beaver Dam Analogs (BDAs) and post assisted log structures woven with vegetation. Over 60 BDAs will be installed throughout the 2.5 miles of stream within the Little Snake River. Each structure will slow down water and spread it across the floodplain adjacent to Green River tributaries, increasing water residence time and aggrading the streambed. These structures will help restore the watershed, improving riparian health, habitat for aquatic species, and downstream sedimentation and nutrient impacts.

## **62. FluxGen: Using AI to make the most of water in a Bengaluru hospital**

Water is often in short supply in Bengaluru, India's third-largest city—a problem of urbanization made worse by climate change. Based in Bengaluru, FluxGen is helping people to make more efficient use of the water that is available. With support from Microsoft, FluxGen's Internet of Things (IoT) and AI-based solutions are reducing water consumption for a hospital in Bengaluru. The project aims to increase the hospital's water efficiency and water availability, while reducing reliance on freshwater.

## **63. Trout Unlimited: Restoring streams and meadows in Arizona**

Trout Unlimited (TU) is partnering with the Bureau of Reclamation, the US Forest Service, and Arizona Game and Fish Department, to restore the Thompson-Burrow Meadow and the West Fork Black River. These habitats are part of an important headwater source for the Phoenix Valley but have been degraded through wildfire impacts and past land management practice. To combat this degradation, TU will restore 2.6 miles of stream and regenerate 128 acres of wet meadow in three creeks. This will increase climate resilience and improve water quality and water storage. Downstream benefits in the Phoenix Valley include sustained water levels during dry months and reduced impacts from flooding and sedimentation.

## **64. FluxGen: Optimizing water use with AI at St. Martha's Hospital, Bengaluru**

FluxGen's Internet of Things (IoT) and AI-based solutions are helping St. Martha's Hospital in Bengaluru, India, make the most of water. With support from Microsoft, FluxGen aims to reduce water consumption at the hospital by 50%, and early results are promising. Water decreased by up to 10% following the installation of flow meters, level sensors, piezometers, and rain gauges to monitor water flow and consumption patterns. The next phase of the project includes implementing advanced water-saving technologies such as aerators, rainwater harvesting systems, and using recycled water to further reduce consumption.

## **65. Aganova: Reducing water loss in Madrid through acoustic leak detection**

Aganova is partnering with the Mancomunidad de Aguas del Sorbe (MAS) water utility to reduce non-revenue water (NRW) in the Province of Guadalajara and Comunidad de Madrid, Spain. Aganova will deploy its acoustic Nautilus System that will travel through 162.8 km of pipes in the water distribution network, identifying and tracking leaks, so MAS can conduct repairs. The project will help reduce overall water withdrawals and lessen regional water stress. Additionally, reduced water loss will result in carbon emissions savings, decreasing the energy requirements for water treatment and distribution.

## **66. Edwards Aquifer Conservancy: Incentivizing water-saving irrigation practices in Texas**

The Edwards Aquifer Conservancy driving water conservation efforts by improving water efficiency among permitted Edwards Aquifer users, awarding up to 100% cost-share to groundwater permit holders who implement innovative conservation projects. The project will incentivize conversion of older inefficient irrigation methods to more efficient practices such as center pivot sprinklers and subsurface drip irrigation systems. Through this project, 4 to 6 farms will transition to more efficient irrigation systems resulting in improved supply reliability and operational savings for farmers.

## **67. Bonneville Environmental Foundation<sup>(e)</sup>, Environmental Defense Fund, Bridgestone Inc., University of Arizona, Tempe Farming Inc.: Using drip irrigation to better manage farm water in Arizona**

Bonneville Environmental Foundation is partnering with the Environmental Defense Fund, Bridgestone Inc., University of Arizona, and Tempe Farming Inc./Todd Thelander to bring an innovative approach to irrigation of guayule crops grown for rubber production. This project will install drip irrigation technologies on up to 52 acres, which is anticipated to conserve a minimum of 52 acre-feet of water annually over the course of the drip irrigation systems' useful life. With the installation of these systems, the project will reduce water and energy consumption, reduce herbicide use, and increase rubber yield. This adoption of climate-smart agricultural practices by underserved communities can enable sustainable farming in the Southwest while bringing high-skill, high-wage jobs to the region.

## **68. Bonneville Environmental Foundation<sup>(e)</sup>, Columbia Basin Conservation District: Transforming irrigation in Washington's Columbia Basin**

In collaboration with the Columbia Basin Conservation District (CBCD) and Microsoft, the Bonneville Environmental Foundation, is implementing a program to maximize irrigation efficiency in the mid-Columbia Basin in Washington. The program will offer cost-share to farmers for new, more efficient irrigation practices such as mobile drip irrigation systems and advanced soil moisture and climate monitoring systems that inform irrigation schedules. This project will enhance community water supply resilience by reducing agricultural water use, ultimately benefiting 25 communities within the mid-Columbia Basin.

## **69. CLEAN International: Bringing Pune's lakes back to life**

CLEAN International, in partnership with local nonprofit organization SayTrees and Microsoft, is restoring and rejuvenating 10 lakes in Pune, India. This project will increase the storage capacity of the lakes and improve groundwater infiltration, thus enhancing water availability to the local

communities of over 20,000 people. Restoration efforts include desilting the lakes, opening inlets and outlets, installing silt traps, and planting trees. In addition to water quantity benefits, the project will track biodiversity and water quality improvements through annual assessments.

### **70. Botanical Water Technologies: Harvesting water from sugarcane in India**

Botanical Water Technologies (BWT) partnered with INNOVITIQ, Manas Agro Industries & Infrastructure, and Jankalyankari Samiti (NGO) to bring an innovative water access strategy to villages around Nagpur, India. BWT will deploy Water Harvesting Units (WHUs) to collect and treat condensate from processed sugarcane at a local sugar mill, producing 60 million liters of “botanical water” annually for a minimum of three years. This potable water will be distributed to over 16,000 residents across nearby villages, providing reliable access to safe drinking water and reducing dependence on depleted groundwater, significantly improving the quality of life for these communities.

### **71. WaterAid: Replenishing groundwater in Bengaluru, India**

WaterAid and Microsoft have partnered to tackle water availability, accessibility, and quality issues in eight villages in rural Bengaluru, India. The project includes building water conservation structures, implementing groundwater recharge systems, and leveraging technology-driven approaches for monitoring. The initiative aims to mitigate groundwater depletion, establish sustainable water systems, and foster community ownership of water security.

### **72. WaterAid: Improving groundwater recharge in Rangareddy, India**

WaterAid improving water availability, accessibility, and quality in 15 villages in Rangareddy, a district in India deeply impacted by critical low groundwater levels. The project involves restoring surface water conservation structures such as check dams, earthen dams, ponds, and open wells. Additionally, it includes constructing groundwater recharge systems and employing technology-driven monitoring approaches. This initiative aims to reduce groundwater depletion, establish sustainable water systems, and enhance community ownership of water security.

### **73. SWAN Systems: Revolutionizing park irrigation in Australia**

Through a partnership with the Penrith City Council, SWAN Systems is deploying its innovative tool for efficient water and nutrient management in 40 irrigated parks and gardens within Penrith, a city in New South Wales (NSW), Australia, with plans to extend the solution to other councils across NSW. The tool aims to reduce water use by 20% each year, as well as prevent environmental damage from nutrient leaching and runoff. By using data from various sources, such as flow meters, weather stations, soil moisture probes, satellites and other sensors, the tool generates optimal irrigation plans for different sites and conditions.

#### **74. Wavin Brazil: Transforming water management in Brazil**

Wavin is working to reduce non-revenue water losses and improve network efficiency for the utility Sociedade de Abastecimento de Água e Saneamento (Sanasa) in Campinas, Brazil. Wavin will implement its Water Network Management (WNM) service, a cloud-based strategic decision-making solution, to monitor Sanasa's water network. WNM can detect leaks, bursts, faulty assets, operational features, and telemetry data in near real-time, alerting Sanasa when an issue is detected and delivering an action plan to resolve the problem.

#### **75. Conservation International: Promoting forest conservation in Beijing, China**

Conservation International, in partnership with the Beijing Municipal Forestry and Parks Bureau and Jingxi State Forest Farm, is implementing a forest-based water replenishment project in the Yongding River Basin—an essential water source for more than 7 million people. This landscape has been severely affected by legacy coal mining, rapid urbanization, and intensive agriculture, leading to degraded ecosystems and reduced water quality. To improve hydrological function and bolster ecosystem resilience, the project will restore forest structure by removing overcrowded vegetation, planting native broadleaf species, and promoting sustainable forest management practices. These activities aim to enhance infiltration, reduce surface water runoff, and increase the basin's water storage capacity while supporting long-term ecological health.

#### **76. Bonneville Environmental Foundation<sup>(e)</sup>, Cocopah Indian Tribe, National Audubon Society: Restoring native habitat along the Colorado River in Arizona**

Bonneville Environmental Foundation, in collaboration with the Cocopah Indian Tribe and National Audubon Society, is restoring riparian habitat along the Colorado River Delta floodplain in southwestern Arizona. The project will construct a water conveyance system using the Tribe's Colorado River water rights to support native habitat regeneration for local wildlife and bird species. It will also empower the Cocopah Tribe to steward culturally significant landscapes, restore native vegetation, and enhance access to traditional plant species.

#### **77. Resource Environmental Solutions: Reforesting agricultural lands to revive the Roanoke River watershed**

Resource Environmental Solutions is restoring 164 acres along the Roanoke River in Virginia from active cropland to native forest and wetland habitat. The project will transform a heavily drained agricultural landscape into a diverse mix of hardwood forest and wetland capture areas. This restoration is designed to improve water infiltration, reduce runoff, enhance water quality, and support local biodiversity. Located within a designated Environmental Justice community, the project also provides meaningful water quality benefits to historically underserved communities in the region.

### **78. CLEAN International: Expanding water access in Jakarta, Indonesia, schools through rainwater harvesting**

CLEAN International, in collaboration with Gravity Water and Happy Hearts Indonesia, is expanding access to clean water in Jakarta, Indonesia, by installing 50 rainwater harvesting and treatment systems at local schools. The project will provide a sustainable source of safe water for over 15,000 students and faculty by capturing and treating rainwater for use in drinking, sanitation, hygiene, cooking, cleaning, and landscape maintenance. By reducing reliance on groundwater, the project also supports long-term aquifer health while enhancing water security for underserved school communities.

### **79. HydroPoint: Improving landscape water efficiency in Carrollton, Texas, schools**

HydroPoint is deploying WeatherTRAK smart irrigation technology across 19 school campuses in Carrollton, Texas, located within the Elm Fork Trinity River watershed. The cloud-based system uses local climate data—including temperature, wind, and humidity—to optimize irrigation schedules and reduce reliance on potable water. By applying water only when needed and incorporating leak detection through continuous flow monitoring, the project is expected to achieve significant water and cost savings while supporting sustainable landscape management within the school district.

### **80. Frog Creek Partners: Improving stormwater quality in Cheyenne, Wyoming**

Frog Creek Partners, in collaboration with the City of Cheyenne and Microsoft, is addressing stormwater pollution in Crow Creek, a waterway impaired by sediment and other contaminants. The project deploys 127 Gutter Bin® stormwater filtration systems at priority storm drains to capture trash, sediment, microplastics, nutrients, and heavy metals before runoff reaches the creek. By leveraging existing stormwater infrastructure, the effort reduces pollutant loads to Crow Creek and the downstream South Platte River watershed while supporting local community goals through improved system performance and long-term watershed resilience.

### **81. Resource Environmental Solutions: Restoring cropland to native habitat in Iowa's Raccoon River watershed**

Resource Environmental Solutions (RES), with support from the Iowa Agricultural Water Alliance, is restoring 17 acres of actively tilled cropland in Dallas County, Iowa—part of the North Raccoon River watershed. The project will convert degraded farmland to native upland and wetland habitat, reducing sediment and nutrient runoff that currently flows through drainage ditches into the Raccoon River. Native vegetation will improve infiltration and nutrient uptake, while a constructed berm will slow runoff and trap sediment. Stream bank stabilization is planned to occur on four hundred feet of eroded channel downstream of the created wetland habitat to improve habitat complexity and support biodiversity.

## **82. Bonneville Environmental Foundation<sup>(e)</sup>, Chattahoochee Riverkeeper: Improving water quality in Georgia through in-stream trash removal**

Bonneville Environmental Foundation, in partnership with Chattahoochee Riverkeeper, is improving water quality in Georgia's Middle Chattahoochee River basin by capturing plastic and other stormwater-borne litter in two urban streams: North Fork Peachtree Creek and Rottenwood Creek. Chattahoochee Riverkeeper will install, monitor, and maintain trash traps that intercept floating debris before it reaches the river. The project reduces plastic pollution, supports healthier aquatic ecosystems, and enhances the recreational value of Atlanta's waterways.

## **83. Agua Segura: Restoring peatlands to improve water retention in Ireland's Wicklow Mountains**

Agua Segura, in collaboration with Peatland Finance Ireland and the National Parks and Wildlife Service, is restoring 200 hectares of degraded peatland in the Wicklow Mountains—headwaters of the River Liffey, Dublin's primary drinking water source. The project will block artificial drains using peat, timber, and small dams to enhance water storage, reduce erosion, and improve the quality and timing of water flow into the river system. By restoring the natural hydrology of the peatlands, the project will support healthier ecosystems and more resilient water supplies.

## **84. FieldFactors: Capturing and treating stormwater in Madrid, Spain**

FieldFactors, in collaboration with the City of Madrid, Universidad Politécnica de Madrid, and Junta de Compensación Solana de Valdebebas, is implementing the BlueBloqs system to improve water quality in the Tagus River basin. In the Solana de Valdebebas neighborhood—home to over 1,300 planned residences, including public housing—stormwater runoff from paved surfaces will be diverted from the municipal sewer, treated through biological filtration, and monitored before it is used to replenish the Valdebebas stream. The project improves local water quality, supports urban resilience, and promotes sustainable stormwater management in a rapidly growing area of Madrid.

## **85: OzFish Unlimited: Restoring aquatic habitat along Darebin Creek in Melbourne, Australia**

OzFish Unlimited and Darebin Creek Management Committee are restoring degraded sections of Darebin Creek in Melbourne to improve water quality and enhance habitat connectivity. The project will install 80 in-stream habitat features—including fish motels and woody structures—across three restoration sites. Riparian zones will be revegetated with native trees, shrubs, and ground cover to reduce erosion, slow runoff, and improve infiltration. Together, these efforts aim to support healthier aquatic ecosystems and increase the resilience of the urban waterway.

### **86. Global Water Partnership: Conserving groundwater in Athens, Greece, through sustainable urban irrigation**

Global Water Partnership is working to preserve groundwater resources in the Cephissus River basin, a key freshwater source for Athens facing increasing drought and flood risks. At the Athens Olympic Sports Complex Olympic Athletic Center of Athens (OACA), the project will replace deep groundwater irrigation with surface water from Hadrian's Aqueduct, an underutilized historic source currently discharged into the sea. By shifting to alternative water supplies, the project promotes sustainable urban irrigation, supports climate resilience, and demonstrates innovative approaches to groundwater conservation in urban green spaces.

### **87. GWF AG: Reducing water loss in Johannesburg, South Africa, through AI-powered pressure management**

The city of Johannesburg has encountered significant challenges in meeting the demand for water and sanitation services due to leaks within its distribution system. GWF AG partnered with Johannesburg Water to mitigate these leaks by optimizing water pressure. For this initiative, the team will implement an AI tool, GWF BALANCE, to detect and quantify leaks in three district metered areas (DMAs) and optimize water pressure. The collected data will be utilized to recommend interventions that adjust water pressure, reducing leak volumes without necessitating pipe repairs.

### **88. Kilimo: Improving irrigation efficiency on family farms in California's San Joaquin Valley**

Kilimo and Netafim are advancing sustainable water use in California's San Joaquin Valley, a region facing severe water stress. The project will transition approximately 68 hectares of farmland across four family-owned farms from flood irrigation to drip irrigation. This shift will reduce water use and improve nutrient management by delivering fertilizers and water directly to crop root zones through precision techniques.

### **89. Kilimo: Improving irrigation practices in Chile's Maipo basin**

Kilimo and Civil Agro are helping reduce agricultural water use in Chile's Maipo Basin, a region experiencing critical water stress. Working with a local smallholder farmer, the project will transition approximately 6 hectares of farmland from flood irrigation to drip irrigation. This approach will reduce water use and limit nutrient pollution through the precision application of water and fertilizer directly to the crop root zone.

### **90. Bonneville Environmental Foundation<sup>(e)</sup>, Natuurpunt: Restoring fragmented wetlands in Belgium's Flanders region**

Natuurpunt, in collaboration with the Bonneville Environmental Foundation, is restoring 67 hectares of wetlands in the Hogedonk and Krabbels-Lovenhoek systems near Brussels. These ecosystems have been degraded by industrial and commercial development. This effort is part of a

broader initiative with Wetlands International to restore 1,500 hectares of wetlands across 18 priority areas in the Flanders region, improving water retention, biodiversity, and ecological connectivity.

### **91. Aganova: Reducing water loss in Dublin, Ireland, with acoustic leak detection**

Aganova, in partnership with Uisce Éireann, is working to reduce non-revenue water in Dublin. The project will deploy Aganova's Nautilus acoustic technology to survey 40 kilometers of distribution pipelines, identifying and tracking leaks from within the system. Leak data will be used by the utility to prioritize inspections and repairs. By reducing water loss, the project aims to decrease total water withdrawals and energy demand, ultimately lowering carbon emissions associated with water treatment and delivery.

### **92. Shayp: Reducing water loss in Brussels, Belgium, schools through smart monitoring**

Shayp is working to reduce water loss in 125 schools across Brussels. Wireless sensors and a smart monitoring platform will track real-time water use and alert school staff to potential leaks. By identifying and addressing leaks early, the initiative will reduce water waste and lower utility costs—particularly benefiting schools in underserved areas while increasing access to smart water technology.

### **93. Bonneville Environmental Foundation<sup>(e)</sup>, Sensor Industries: Reducing water loss in public housing communities in Fort Worth, Texas**

Bonneville Environmental Foundation and Sensor Industries are partnering to install smart leak detection systems in public housing communities in Fort Worth. These sensors, placed in toilets, automatically detect leaks and trigger shut-off valves, helping to prevent water waste. When a leak is identified, building managers are alerted to take prompt action. This technology supports water conservation while reducing costs for underserved communities.

### **94. Trout Unlimited: Restoring streamflow and wildlife habitat in Quincy, Washington**

Trout Unlimited is restoring 3 miles of degraded streams in Washington's Upper Columbia-Entiat and Lower Crab Creek watersheds. This phase of the multi-year project includes the installation of 400 in-stream structures, such as beaver dam analogs, to slow water flow and improve infiltration and aquatic habitats. Relocated beavers will help maintain the structures over time. The project supports habitat restoration for native and endangered species, including redband rainbow trout, steelhead, and greater sage-grouse.

### **95. SWAN: Improving irrigation efficiency for public green spaces in Sydney, Australia**

SWAN, in partnership with Sydney city councils, is deploying SWAN Systems—an advanced precision irrigation platform—to improve water and nutrient efficiency in 120 parks and gardens in Sydney. By integrating data from flow meters, weather stations, and other sources, the system generates optimized irrigation schedules to reduce water use by 20% across 75 hectares of city parks. The project aims to enhance landscape health while minimizing environmental impacts such as nutrient runoff.

### **96. Bonneville Environmental Foundation<sup>(e)</sup>, Netafim: Improving agricultural water efficiency in Washington**

Netafim is partnering with Bonneville Environmental Foundation to work with three farms in the state of Washington to reduce agricultural water and fertilizer use while maintaining or improving crop yields. The project will transition existing operations from traditional, water-intensive irrigation to precision irrigation systems. Participating farmers will also receive technical support throughout the implementation to ensure successful adoption and long-term benefits.

### **97. Bonneville Environmental Foundation<sup>(e)</sup>, Sourcetable: Improving freshwater availability and irrigation efficiency in the Netherlands green spaces**

Sourcetable is partnering with Bonneville Environmental Foundation to implement an integrated water management solution at three farms near Lake IJssel in the Netherlands. The project combines rainwater harvesting, microbiological treatment, aquifer storage transfer and recovery (ASTR), and efficient irrigation systems to reduce or eliminate reliance on the lake for irrigation. These interventions aim to secure agricultural production while improving water quality by minimizing exposure to contaminants in the existing water supply.

### **98. Trout Unlimited: Restoring hydrologic connectivity in Wyoming's Douglas Creek watershed**

Trout Unlimited, in collaboration with the USDA Forest Service, is restoring sections of the Middle Douglas Creek watershed on public lands within Medicine Bow National Forest. The project will use Aquatic Organism Passage (AOP) projects, beaver dam analogs and other nature-based structures to reestablish natural hydrologic flows and improve groundwater recharge and stream health.