



# SUSTAINABILITY

Part of a diversified family of solutions

[jmt.com](http://jmt.com)





# What Sustainability Means to JMT

Given the ecological challenges that our world faces – water quality and supply, global warming, climate change, habitat destruction and fragmentation, and loss of biodiversity – holistic and comprehensive solutions are required to meet the needs of current and future generations.

Those solutions are available if we plan and engineer communities, transportation networks, infrastructure, and technologies that reconcile the environmental, social, and economic demands of our world.



# Sustainable Communities

We believe that sustainability involves more than just recycling and saving energy – it's also about helping others and ensuring that our communities are safe, healthy, and integrated with their environment.



## Environmental Stewardship

Employees regularly volunteer for numerous environmental efforts including stream cleanups to achieve clean water in our rivers, streams, and harbors. Employees also maintain our adopted highways through various Adopt-a-Highway programs. Additionally, employees assist efforts to eradicate invasive plant and animal species.

## Community Rebuilding

JMT is proud to be a part of rebuilding efforts throughout the communities in which we live, work, and play. Employees in our various offices have volunteered countless hours for Habitat for Humanity, Rebuilding Together, and other nonprofit organizations.

## Mentoring Programs

JMT annually participates in Engineers Week through the National Engineers Week Foundation, a formal coalition of more than 100 professional societies, major corporations, and government agencies. We are also a strong supporter of the ACE (Architecture, Construction, Engineering) Mentor Program. ACE is a partnership of industry professionals who work together to attract young people to the industry through mentoring, scholarships, and grants.

These organizations are dedicated to ensuring a diverse and well-educated future industry workforce by increasing students' understanding of and interest in architecture, engineering, construction, and technology careers.



## Annual & Relief Efforts Giving

We have a tradition at JMT of supporting American Red Cross world relief efforts to aid communities around the globe struck by disaster. In addition to employee donations, JMT matches every dollar contributed by employees.

In recent years we have raised funds for important relief efforts such as Hurricane Katrina and major earthquakes and tsunamis in Haiti, south and central Asia, Japan, and Peru. We also continue to support the United Way through annual giving, the American Red Cross by hosting mobile blood drives, the Susan G. Komen Race for the Cure, and other charities.





# Sustainable Workplace

By making our everyday actions and work environment more efficient, we have found that sustainable initiatives save money as well as resources – a win-win for the company and the environment. We feel that this is just the beginning of what we are capable of achieving.

One of the few large A/E firms accredited as Technical Service Providers by the National Fish & Wildlife Foundation's Chesapeake Bay Program.



## Hybrids

Hybrid cars produce 90% fewer pollutants on average than comparable non-hybrid cars. We are converting our company vehicle fleet to hybrid vehicles whenever possible to reduce emissions and save on fuel costs.

## Bulk Recycle Paper, Electronics, Batteries & Print Cartridges

With millions of tons of e-waste being improperly disposed of every year, providing this service allows for a safe mechanism for recycling of these items which would otherwise end up in landfills.

## Eliminated Bottled Water Coolers

We replaced each water cooler with a reverse-osmosis water filtration system. This simple action reduces waste from the large plastic water bottles, eliminates deliveries from our water provider, and thus reduces our carbon footprint.

## Energy-Efficient Practices

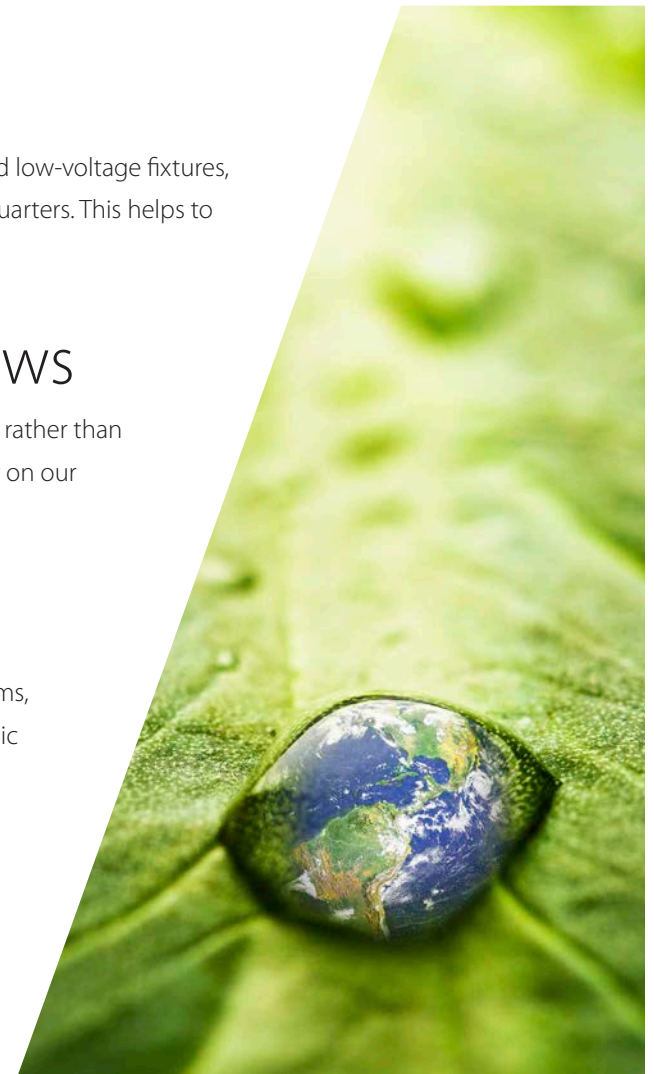
We replaced all of our conventional light fixtures with high-efficiency CFL's and low-voltage fixtures, and installed occupancy sensors for overhead lights in JMT's corporate headquarters. This helps to reduce our overall carbon footprint and energy use.

## Electronic Submissions & Reviews

We are utilizing electronic reviews and submissions to clients more frequently rather than printing hard copies of large plan sets, saving on paper, ink, and wear and tear on our printers. We also distribute our holiday greeting cards digitally.

## Employee Information

We have made all of our various administrative forms available online as e-forms, and recently implemented online Brainshark presentations and other electronic marketing materials to reduce paper waste.





# At JMT, Sustainability is not just a catchphrase.

We understand our interconnectedness to the world, both corporately and individually, and we take ownership of the need to live and work in a responsible manner across all three dimensions of sustainability: economic, social, and environmental. We embrace this approach in our communities, in our workplace, and in the services we offer.

## Economic

Sustainability makes sense both ethically and economically, as we have experienced significant cost savings as a result of our efforts to make our operations more sustainable.

## Social

We enjoy the sense of satisfaction that comes from assisting others in our community and from being good stewards of the environment in which we live. We have also found that providing our holistic solutions to clients' sustainability initiatives creates stronger relationships between our company and our clients.

## Environmental

Each project – whether for our clients, our community, or our workplace – is an opportunity to enhance the human and natural world. We engage a multidisciplinary team to look at a project from all angles and then leverage and integrate sustainable ideas and solutions within the framework of the project goals.

Proud Member of  
the U.S. Green  
Building Council.



## Sustainable Facilities/LEED®

Our services include environmentally-responsive site planning and design; indoor air quality; green building construction management & inspection; environmentally preferable materials/products; and high performance HVAC, thermal, acoustic, & lighting.

## Energy

JMT offers energy analysis, energy audits, owner's representation, ESCOs, and renewable energy sources. We employ American Energy Engineering-accredited Certified Energy Managers and Commissioning Authority certified professionals.

## Greenhouse Gas Inventories

JMT assists clients with a large portfolio of facilities in creating sustainability plans and performing Greenhouse Gas Inventories, Carbon Footprint Analyses, and mitigations plans for reducing carbon footprints.

## Context Sensitive Solutions

JMT works to ensure that projects fulfill the needs of all users, are fully accessible and safe, and are balanced with environmental, aesthetic, historical, and cultural needs. Our specialties in context sensitive solutions include highways, streetscapes, parks, trails, open space and master site plans, playgrounds, greenways and trails, public space design, redevelopment/revitalization plans, and wayfinding and gateway signage.

# Sustainable Services

JMT offers our clients a rich array of sustainable services encompassing a wide variety of project goals and types. We offer these services in all of our major business markets and across all of our service sectors. We engage and leverage all of our company's disciplines, led by LEED® Accredited Professionals, to deliver sustainable solutions that make a difference in our community and with our clients.

Sustainable Facilities/LEED®

Energy

Greenhouse Gas Inventories

Context Sensitive Solutions

Green Infrastructure

Ecological Restoration

Transportation Planning

Watershed Assessment & Planning

Total Maximum Daily Loads (TMDLs)

Nutrient Trading & Credits

Natural Resources Planning



## Green Infrastructure

We design adaptive solutions to mitigate combined sewer overflows, wastewater and municipal stormwater flows, and agricultural runoff. Solutions include stormwater intervention and retrofit programs such as rain gardens, stormwater wetlands, bioretention, porous pavements, green roofs, and infiltration planters; enhanced nitrogen removal for wastewater; environmental site design and low impact development techniques; stream and ecological restoration BMPs; upland BMPs; urban hydrologic and surface water flow goals; dry and wet weather hydrodynamics; peak hydrograph reduction; rooftop disconnection programs; rainwater harvesting; and groundwater recharge.

## Ecological Restoration

JMT has guided a large number of restoration projects and assisted clients in developing restoration and mitigation strategies and programs. Our team selects natural process solutions whenever appropriate. Projects include stream and riparian corridor restoration including natural channel design, stabilization, and floodplain re-attachment; tidal and non-tidal wetland creation and enhancement; floodplain/riparian buffer enhancement; living shoreline creation; beaches and dunes replenishment; invasive species management; and forest and habitat conservation planning.



## Transportation Planning

During the planning process, we employ a variety of techniques that integrate transportation functionality and ecological sustainability. By doing so, and using the principles of context sensitive design and low impact development, we are able to enhance watershed-based stormwater management and ecosystem management. During planning, we consider incorporating permeable pavement, warm asphalt, LED signal and lighting, as well as recycled and reused materials whenever possible. Projects have included green corridor development, green highways, multi-modal transportation facilities, bicycle and pedestrian trails, and green track design for transit.

## Watershed Assessment & Planning

We are fully capable of designing solutions for any water challenge. Services include watershed assessment planning, modeling, restoration and implementation plans; source water protection plans; river basin conservation and lake restoration plans; watershed project grant assistance; and water quality and biological monitoring and analyses.

## Total Maximum Daily Loads (TMDLs)

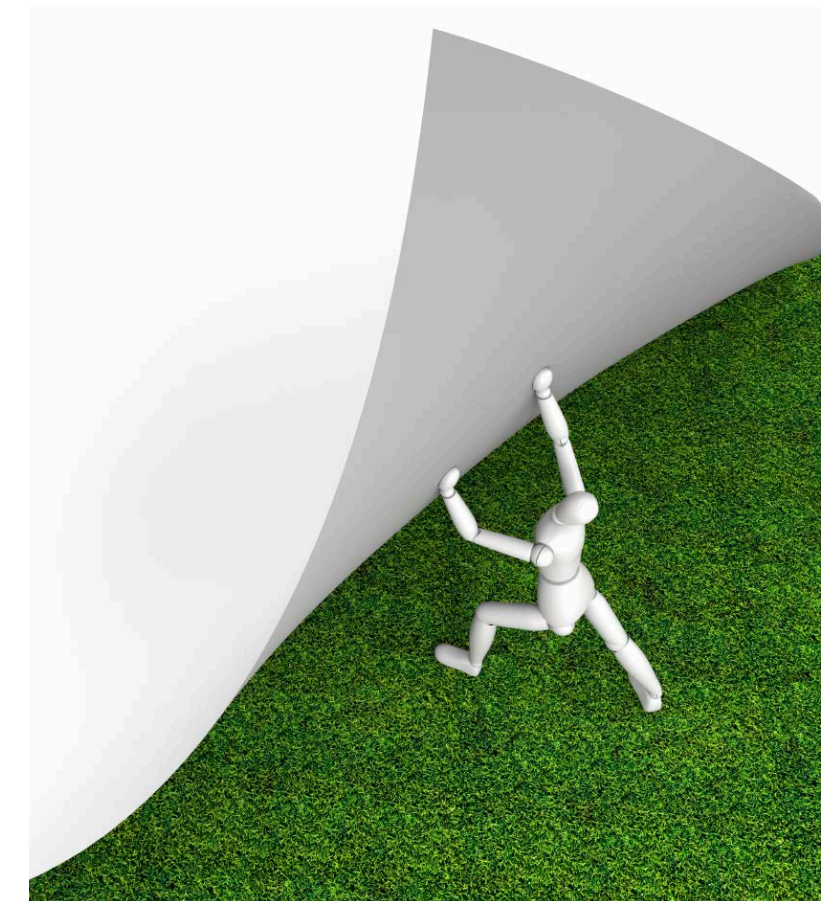
JMT is striving to help clients and communities meet the new Chesapeake Bay Total Maximum Daily Load (TMDL) requirements through TMDL load reduction tracking and modeling, local stream TMDL assistance, and pollutant load modeling based on future land use changes.

## Nutrient Trading & Credits

We are engaged in nutrient trading efforts and assist with nutrient trading, banking, ecosystem services, and financial incentives. We are active in the research and development of using algal treatment systems to remediate excess nutrients and provide alternative energy sources.

## Natural Resources Planning

We perform comprehensive NEPA planning and regulatory permitting for a wide variety of project types and ecological contexts. Our natural resource services include wetlands and waterways delineations; wetland functions and values assessments; forest stand delineations and forest conservation plans; rare, threatened and endangered species surveys; invasive species surveys and management; stream corridor assessments; benthic macroinvertebrate and fisheries studies; biological/botanical investigations; and ecological risk assessments.





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