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 **RESOURCE**
INTERNATIONAL, LTD.

ENGINEERS ● SCIENTISTS ● SURVEYORS ● PLANNERS



9560 Kings Charter Drive
Ashland, VA 23005
(804) 550-9200 * FAX (804) 550-9259

www.resourceintl.com



MISSION STATEMENT

**“We challenge ourselves to rethink the traditional,
To apply innovative and sustainable technology,
And to identify creative engineering and
environmental solutions,
In order to earn our clients for life.”**

Our Corporate Challenge

“Be the Best, Make it Personal, NOW.”

READY TO SERVE YOU:

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GENERAL OVERVIEW

Resource International, LTD (Resource), a SWaM certified Small Business (License#684640), provides engineering & consulting services to small businesses, large commercial & industrial corporations, & all levels of government. Started in 1979, the company has two offices located in Ashland, & Chesapeake, Virginia.

Resource's experienced team of engineering and scientific professionals provides complete planning to assist the economic development needs of our clients. Our commitment to quality service is exemplified through the following blend of assets:

- Experienced urban & suburban planners.
- Innovative water & wastewater system designers.
- 30 years of commercial & industrial design.
- Environmental planners & designers protecting water & wetland resources.
- Professionals using technology to achieve sustainable development.
- Engineers experienced solid waste management field.



We employ a broad, experienced team of professionals including:

- Civil Engineers
- Land Surveyors
- Municipal Engineers
- Wetland Scientists
- Environmental Engineers
- Solid Waste Engineers
- Groundwater Specialists
- Municipal Planners
- Land Planners
- Landscape Architects
- Transportation Engineers
- Geologists
- Hydrologists
- Computer Modelers
- Graphic Designers

These professionals provide services to industrial, commercial, and government clients in the areas of:

- Land Development Planning & Engineering
- Municipal Planning & Ordinances
- Economic Development
- Water Supply & Wastewater Treatment
- Solid Waste - Planning, Permitting, Design, & Closure
- Wetlands Delineation & Permitting
- Environmental Assessments & Impact Analysis
- Financial Feasibility Studies
- Industrial Permitting
- Industrial Site Development

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Landfill Gas to Energy

LANDFILL GAS TO ENERGY



Resource has over 30 years of solid waste experience and a team of solid waste professionals, scientists and technicians that can meet your needs. Resource's solid waste clients include local government, regional and state government, waste management companies and other private clients.

Recently Resource has completed 10 landfill gas recovery and energy generation projects. Resource's services have included the design and/or permitting of the following elements:

- Gas Recovery Wells
- Vacuum Gas Extraction systems
- Gas Recovery Well Networks
- Gas Flaring Systems
- Gas Fired Systems for Peaking and/or Base Load Power
- Solid Waste Facility Permitting
- Air Pollution Permitting (where required)

Resource Team

The Resource design team includes civil engineers, chemical engineers, environmental engineers, and environmental scientists. Our team has over 100 years of combined solid waste experience on 100's of projects.

Selected Project Information

Facility	Gas System Size MW	Approx. Daily Solid Waste Tonnage (2010)	Acreage of the Landfill
King and Queen Landfill	12 MW Peak	2,600	420
King and Queen Landfill Expansion	28 MW Peak	2,600	420
Shoosmith Landfill	16 MW Peak	3,500	400
Charles City Landfill	16 MW Peak	1,500	600
Brunswick County Landfill	12 MW Peak	1,500	400
Private Closed Landfill	6 MW	Closed	200
R-Board Landfill	2.1 MW	400	700
Springfield Road Landfill	4 MW Peak	300	300
New River Resource Authority	In preliminary design	300	--
Wake County, NC	In negotiations	--	--

**For more information please contact:
 Mr. Michael E. Fiore, P.E. at (804) 550-9201 or
 Mr. Ed Hollos at (804) 550-9245**

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Solid Waste and Landfill Services

SOLID WASTE SERVICES

Resource has over 28 years of solid waste experience and more than 35 engineers, scientists, and technical professionals to meet your needs.



Lining Subgrade
King & Queen Landfill



Liner Installation
Ashcake Road Landfill



Landfill Gas to Energy
Stafford County, VA



Active Gas Extraction System
Fredericksburg, VA

LANDFILL FACILITIES

- Part A & Part B Permitting & Design
- Cost Opinions for Financial Assurance
- Landfill Gas Control & Management
- Air Permitting
- Environmental Monitoring & Modeling
- Storm Water Pollution Prevention Plans
- VPDES Permits & Outfall Monitoring
- Operations Review & Evaluations
- Construction Phase Services
- QA/QC & CQA Documentation
- Surveying

WASTE TRANSFER

- Permit-by-Rule Submittals
- Transfer Stations
- Material Recovery Facilities
- Drop-off Centers / Public Use Areas
- Spill Prevention, Control, & Countermeasures Plans
- Construction Phase Services

PLANS & STUDIES

- Site Selection Evaluations & Studies
- Site Plans & Local Zoning & Approvals
- Solid Waste Management Plans
- Waste Characterization Studies
- Financial Analyses
- Site Life Evaluations
- Rate (Tipping Fee) Studies
- Privatization Studies (Public vs. Private Operations)
- Transportation Studies

Membrane Liner Installation
King William County, VA



Landfill Closure
Prince Edward County, VA



Leachate Pond
Prince Edward County, VA



Convenience Center
Stafford County, VA

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Selected Landfill Experience

LANDFILL EXPERIENCE

PRINCE EDWARD COUNTY LANDFILL

During Resource's 22-year contract relationship with Prince Edward County, Resource has provided a broad range of engineering, environmental and program support. This landfill receives about 100 tons per day of solid waste. The most recent Subtitle D lined disposal cell (constructed in June and July of 2008) comprised approximately 450,000 sq. ft. of geosynthetic materials. The County is currently considering a potential piggyback option to expand the life of its facility.

- ◆ Regional Solid Waste Management Plan
- ◆ Landfill Permitting – Part A and B
- ◆ Permit Amendments
- ◆ Landfill and Facility Siting
- ◆ Landfill Construction Drawings
- ◆ Landfill Construction Specifications
- ◆ Landfill Cell Construction
- ◆ Cell Construction QA/QC Documentation
- ◆ Closure Plans and Specifications
- ◆ Closure construction
- ◆ Closure Construction QA/QC Documentation
- ◆ Alternate Waste Disposal Options
- ◆ Variance Petition
- ◆ Post-Closure Care
- ◆ Wetland Delineation and Permitting
- ◆ Storm Water Management / SWPPP
- ◆ Regulatory Liaison and Compliance
- ◆ Landfill Gas Management
- ◆ Annual Budgeting Support
- ◆ Operational Support
- ◆ Groundwater and Gas Monitoring
- ◆ Financial Assurance Updates



RAPPAHANNOCK REGIONAL SOLID WASTE MANAGEMENT BOARD (R-BOARD) – STAFFORD COUNTY & CITY OF FREDERICKSBURG, VIRGINIA

The R-Board was formed in 1988 by the City of Fredericksburg and the County of Stafford to operate a regional solid waste management and disposal system. The disposal plan included the permitting of a 700-acre property in Stafford County for the regional landfill. This facility landfills approximately 375 tons per day of solid waste.

Resource has been providing solid waste design and program support as their principal engineer since 1988. During that period of time, Resource has performed a wide range of engineering services required to manage and operate a successful solid waste management program. Resource has permitted new operational areas as they are needed to assure continued disposal capacity. Resource provides landfill engineering services including leachate collection/treatment and composite liner design. Resource prepared contract documents for the bidding

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LANDFILL EXPERIENCE

and construction of the landfill and supervised the construction of over 1,000,000 square feet of liner for current cells.

Our services have included, but have not been limited to, the following:

- ◆ Regional Solid Waste Management Plan
- ◆ Landfill Permitting – Parts A and B
- ◆ Landfill Gas to Energy Permitting
- ◆ Landfill Master Plan
- ◆ Construction Plans and Specifications
- ◆ Landfill Cell Construction
- ◆ Title V Air Permitting and State Air Permitting Compliance
- ◆ Landfill Design
- ◆ Waste Characterization Study
- ◆ Closure Plans and Specifications
- ◆ Closure Construction
- ◆ Closure Construction QA/QC Documentation
- ◆ Post-Closure Care Plans and Implementation
- ◆ Public Use Area and Recycling Center Design
- ◆ Active Gas Management System Design and Permitting
- ◆ Budgeting and Operational Support
- ◆ Annual Regulations Review
- ◆ Regulatory Liaison and Compliance
- ◆ Permit Amendments
- ◆ HB 1205 Compliance Documents
- ◆ Groundwater Modeling
- ◆ Groundwater and Gas Modeling
- ◆ Financial Assurance Updates



ASHCAKE ROAD CDD LANDFILL, ASHLAND, VA

During our 17-year relationship with Ashcake Road Landfill, Inc., Resource has provided a broad range of engineering, environmental, surveying and facility program support. Resource assisted during the planning of the landfill with community meetings relative to the local government conditional use permit and site plan processes. Buffers and visual screens are examples of conditions Resource helped negotiate between County staff and local residents.

Our services have included, but are not limited to:

- ◆ Landfill Permitting – Part A and B
- ◆ Landfill and Facility Siting - including local government site plan processes
- ◆ Landfill Construction Staking and Documents
- ◆ Landfill Cell Construction
- ◆ Landfill Cell QA/QC Documentation

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LANDFILL EXPERIENCE

- ◆ Closure Plans and Specifications
- ◆ Closure Construction
- ◆ Closure Construction QA/QC Documentation
- ◆ Leachate Management
- ◆ Local Government Industrial Discharge Permit Applications and Approvals
- ◆ Alternate Waste Disposal Options
- ◆ Topographic Surveying for Phased Airspace Calculations
- ◆ Variance Petition
- ◆ Wetland Delineation and Permitting
- ◆ Storm Water Management
- ◆ Regulatory Liaison and Compliance
- ◆ Landfill Gas Management
- ◆ Financial Assurance Updates
- ◆ Annual Budgeting Support
- ◆ Permit Amendments
- ◆ Operational Support
- ◆ Groundwater and Gas Monitoring



BROWNING-FERRIS INDUSTRIES (ALLIED WASTE)

Resource was selected by BFI to provide professional engineering services required for the permitting of its Old Dominion Landfill located in Henrico County, Virginia. The landfill permitting required local permitting to obtain a special use permit to operate a sanitary landfill in the County, before a state permit could be processed and issued.

Resource has been providing continuous landfill engineering design and professional support to BFI as it has progressed with the construction of that landfill. This has included all the permit documents and engineering plans to each new cell that is constructed to meet the disposal capacity requirements of the collection division.

Resource also provided permitting services and engineering design for BFI's King and Queen County Landfill. Each landfill accepts in excess of 2,000 TPD of municipal solid waste.

Services that Resource has provided for BFI landfills have included, but are not limited to:

- ◆ Part B Permit Design and Submission Documents
- ◆ Cell Development and Construction Drawings
- ◆ Permit Amendments
- ◆ Wetland Delineation and Permitting
- ◆ Medical Waste Transfer Facility Design
- ◆ Landfill Gas Recovery and Electric Generating Facility Design



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LANDFILL EXPERIENCE

- ◆ Strategic Planning and Soil Management
- ◆ Industrial Waste Discharge Permitting for Leachate Discharge
- ◆ NPDES Permitting
- ◆ SPCC Plan
- ◆ Road Design
- ◆ Storm Water Management
- ◆ Transfer Stations and MRF Permitting
- ◆ Surveying



DOMINION GENERATION – CHESAPEAKE ENERGY CENTER – ASH LANDFILL

Resource has maintained an open-end engineering and environmental consulting contract relationship with Virginia Power for over 10 years. In 1998, Resource was retained to assist Virginia Power with evaluating the disposal needs of its power plant in Chesapeake, Virginia. In order to ensure continuous ash disposal, the assignment included the evaluation of potential new landfill sites, as well as an analysis of the expansion of the existing site.

Resource completed permit amendment documents and design drawings for “piggy-backing” over the existing ash disposal area with a geomembrane liner and leachate collection system.

Services that Resource has provided for this landfill have included, but are not limited to:

- ◆ Site Selection Study
- ◆ Analysis of Permit Options
- ◆ Groundwater Impact Analysis
- ◆ Local Compliance – City of Chesapeake
- ◆ Permit Amendment and Design Documents
- ◆ Stormwater NPDES Permitting
- ◆ Budget and Operational Support

LOUDOUN COUNTY, VA

SWS have performed more than 50 separate tasks over the last 12 years for Loudoun County. These tasks have covered all planning, permitting, design, bidding, and construction services related to the landfill. The landfill receives approximately 100,000 tons of solid waste per year. SWS has been involved in the design, permitting, and construction of more than 2 million square feet of liner system and more than 400,000 square feet of synthetic cap at the LCSWMF since 1997. This includes a 9 acre piggyback expansion over an old non-subtitle D disposal area. The County has just completed a major infrastructure construction project for a new disposal area in April 2009. SWS have just completed submitted bidding documents for lining a 22-acre disposal cell and capping a 3-acre sideslope area of the landfill.

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LANDFILL EXPERIENCE

The disciplines covered under these tasks included the following:

- ◆ Landfill Permitting – Part A and B
- ◆ Permit Amendments
- ◆ Landfill Piggyback Design, Permitting, and Construction-Phase Services
- ◆ Landfill Construction Drawings
- ◆ Closure Plans and Specifications
- ◆ Closure Construction-Phase Services
- ◆ Cell Construction QA/QC Documentation
- ◆ Landfill Active Gas Management System Design And Permitting
- ◆ Title V Air Permitting and State Air Permitting Compliance
- ◆ Leachate Storage, Pumping, and Pre-Treatment
- ◆ Closure Plans and Specifications
- ◆ Closure Construction-Phase Services
- ◆ Closure Construction QA/QC Documentation
- ◆ Variance Petition
- ◆ Post-Closure Care
- ◆ Public Convenience Center and Recycling Center Design
- ◆ Wetland Delineation and Permitting
- ◆ Storm Water Management / SWPPP
- ◆ Regulatory Liaison and Compliance
- ◆ Annual Budgeting Support
- ◆ Operational Grading Support
- ◆ Groundwater and Gas Monitoring
- ◆ Tipping Fee Studies and Disposal Agreement Preparation
- ◆ Feasibility Studies
- ◆ Financial Evaluation and Financial Planning
- ◆ Capacity Tracking Model Support
- ◆ Financial Assurance Updates
- ◆



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Construction Quality Assurance Services



CONSTRUCTION QUALITY ASSURANCE

Resource solid waste engineers and technical staff have provided quality assurance services for landfill liner, closure cap, active landfill gas extraction well construction projects and liquid containment facilities (raw water, process water, leachate) for municipal and private facilities. Quality assurance services provided include:

- Conformance Testing Coordination
- Contractor Submittal Review
- Geosynthetic Installation Observation and Documentation
- Leachate Collection Layer Observation and Documentation
- Destructive Testing Coordination and Documentation
- Coordination with DEQ
- Coordination with Local Government Agencies
- Record Surveying
- Project Record Documentation
- DEQ Certificate-to-Operate Inspections
- Liner Repair Documentation
- Leachate Collection System Tie-In Documentation

Resource is familiar with projects utilizing the following geosynthetic products:

- 40-mil LLDPE
- 40-mil VLDPE
- 60 mil HDPE,
- 80 mil HDPE
- Geotextiles
- Geocomposites
- Geotextile Formed Concrete
- Geosynthetic Clay Liners
- Reinforced Polyethylene
- Reinforced Polypropylene

Resource solid waste engineers and technical staff have provided quality assurance services for over 7.7 million square feet of synthetic liner construction, 2.2 million square feet of synthetic closure cap construction, and 4.9 million square feet of synthetic membranes for liquid containment.

Resource has partnered with Atlantic Geotechnical Services and Dominion Engineering Associates for soil materials (clay liner, clay cap, structural fill) Quality Assurance services. These geotechnical specialty firms provide borrow area investigations, laboratory soils testing, liner test pad testing and evaluation, closure cap test pad testing and evaluation, and soils field testing.

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CONSTRUCTION QUALITY ASSURANCE

Resource utilizes Precision Geosynthetic Laboratories (www.precisionlabs.net) for geosynthetic materials conformance testing, Interface Shear Testing between geosynthetics and site specific soils, and destructive tests of liner seam samples. Precision Geosynthetic Laboratories is currently accredited for 87 tests by Geosynthetic Accreditation Institute.

PROJECT EXPERIENCE

Resource project experience for which construction observation and CQA documentation services were provided:

- **Town of Orange Raw Water Storage Reservoir***
 - ▶ Base grade preparation
 - ▶ Embankment construction (structural fill)
 - ▶ Geocomposite (protective cover)
 - ▶ HDPE (60 mil) pond liner
 - ▶ Geotextile
 - ▶ HDPE pipe and pipe supports
 - ▶ Reinforced concrete intake structure
 - ▶ Geotextile formed concrete

- **Dominion Resources Chesapeake Energy Center New Metals Holding Pond**
 - ▶ Base grade preparation
 - ▶ Embankment construction (structural fill)
 - ▶ Reinforced polypropylene pond liner

- **Dominion Resources Chesapeake Energy Center Closure of “Old” Metals Holding Pond**
 - ▶ LLDPE (40mil) geomembrane
 - ▶ Geocomposite Drainage Layer

- **Prince Edward County Landfill – Phase 1 Partial Closure (~5.1 acres)***
 - ▶ Base grade preparation
 - ▶ Clayey soil infiltration layer
 - ▶ Geotextile
 - ▶ LLDPE (40 mil) geomembrane
 - ▶ LFG vents



Town of Orange - Raw Water Storage Basin Outlet Structure



Dominion - Metals Pond Holding



Prince Edward Cell D

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CONSTRUCTION QUALITY ASSURANCE

- **Prince Edward County Landfill – Disposal Cell D***

- ▶ Base grade preparation
- ▶ Embankment construction
- ▶ HDPE (60 mil) liner
- ▶ Geotextiles (cushion and filter)
- ▶ HDPE piping
- ▶ Geomembrane Rain Cover

- **Ashcake CDD Landfill – New Disposal Cell****

- ▶ Base grade preparation
- ▶ Embankment construction
- ▶ HDPE (60 mil) liner
- ▶ Geotextiles (cushion and filter)
- ▶ HDPE piping
- ▶ Geomembrane Rain Cover

- **R-Board Sanitary Landfill – Cell E Repair**

- ▶ Geotextile (filter)
- ▶ Geomembrane Rain Cover

* Geotechnical sub: AGS

**Geotechnical sub: Dominion Engineering Associates



Ashcake - Liner Installation



R-Board - Rain Cap Installation



Liner Instllation



Prince Edward Cell D



Rain Cap

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Services

Industrial Development
Environmental
Water and Wastewater
Land Development
Transportation

INDUSTRIAL SERVICES

Resource has over 30 years of experience in assisting with permitting industrial projects. Project services include permits and compliance applications for:



Regional Jail Facility

- Air Pollution Permits
- Wastewater Discharge Permits
- Solid Waste Facility Permits
- Site Plan Design & Permitting
- Environmental Permitting & Compliance



Landfill Gas to Energy



Distribution Center

Selected industries that Resource has provided site and environmental permitting services for include:

- Electrical Utilities
- Chemical
- Paper
- Fertilizer
- Aggregate
- Food
- Apparel
- Waste Management



Agronomics Facility



Paper Company

Services provided to our industrial clients include:

- Feasibility Studies
- Compliance Oversight & Review
- Environmental Permitting
- Engineering Design & Construction Plans
- Regulatory Permitting & Negotiations
- Construction Administration



Power Station



Landfill Gas to Energy



Co-Generation Plant

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ENVIRONMENTAL SERVICES

Resource has a staff of natural resource professionals which includes biologists, ecologists, geologists, hydrologists, hydrogeologists, and engineers who are fully knowledgeable of all phases of environmental science.



**Small Whorled Pogonia
(Endangered Species)**



Wetland Delineation



Dock Permitting (RP19)

Environmental

- ESA's Phase I and II
- Environmental Impact Assessments
- Threatened and Endangered Species Studies

Permitting

- NPDES
- VPA
- Waters of the U.S./Wetland
- Solid Waste
- Storm Water
- Air Pollution

Wetlands and Streams

- Wetland Determinations & Delineations
- Stream & Perenity Assessments
- Wetland Functional Value Assessments
- RPA Determinations
- Permitting
- Wetland Creation/Restoration Siting & Design
- Stream Restoration & Design

Groundwater

- Groundwater Studies
- Groundwater Withdrawal Permits
- Groundwater Contamination Assessment
- Groundwater Monitoring & Modeling
- Risk Assessment
- Corrective Action Plans

Facility

- UST Removal, Reimbursement
- Above Ground Storage Tanks
- Spill Prevention Plans
- Waste Minimizations
- ISO - 14000 Consultation
- Landfill Gas Monitoring



Waters of the US Delineation

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WASTEWATER SERVICES

Resource has provided a full range of engineering services for municipal and industrial clients which have included problem definition, engineering feasibility, design, construction surveillance, and operations consultation.

WASTEWATER

Resource has been providing quality engineering and scientific services to ensure effective and dependable infrastructure for wastewater collection, transport, treatment, and disposal. Resource's innovation has produced more cost-effective wastewater facility alternatives than normally available through conventional methods. Resource has planned and designed wastewater systems ranging from small developments to major county facilities. Resource has designed collection systems, pumping stations, and treatment plants. Computer modeling of system networks allows us to test various development alternatives within a community's wastewater system. Resource has provided timely and quality engineering services to ensure effective and dependable wastewater collection, pumping and treatment.

- Collection Systems
- Pumping Systems
- Feasibility Studies
- Process Design
- Process Evaluation
- Treatment Plant Designs
- Treatability Studies
- Construction Management
- Start-up Services
- Force Main Design
- Discharge Permitting
- Funding Applications
- Master Plans
- Pre-treatment Facility
- Bidding Assistance
- I & I Studies
- Construction Surveillance



- Endangered Species Determinations
- Wetlands Delineation
- Geological Studies
- Water Supply Design
- Hazardous Waste Surveys
- Wastewater Treatment Plant Design
- Oil Spill Plans
- Stormwater Plans
- Waste Minimization Studies
- Pollution Prevention Plans
- Odor Control Plans
- Air Emission Testing



INDUSTRIAL

- Facility Site and Building Design
- Process System Design
- Equipment Layout Design
- Dam and Reservoir Design
- Permitting (Air, water, etc.)

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LAND DEVELOPMENT SERVICES

Resource offers a full range of engineering and technical services to support commercial, residential, and industrial property developers. These services include site plan preparation, public hearings and presentations, development layout and feasibility studies, site and project engineering, commercial building design, recreational facility planning, on-site and off-site utilities, parking lot design, and project management.



Farms of New Kent
New Kent County, VA



JDA Building
Isle of Wight, VA



Soccer Field



King Charter
Hanover County, VA

SUBDIVISIONS & PLANNED COMMUNITIES

Types of Projects

- Age Restricted Development
- Golf Course Communities
- Mixed-Use Development
- Multifamily Complexes
- Neo-Traditional Communities
- Planned Unit Development
- Traditional Subdivisions

COMMERCIAL DEVELOPMENT

Types of Projects

- Banks
- Convenience Centers
- Day Care Centers
- Flex Space
- Gas Stations
- Mini-Storages
- Office Buildings
- Office Parks
- Quick Serve Restaurants
- Service Centers
- Shopping Centers



Atlee Station
Hanover County, VA

INDUSTRIAL DEVELOPMENT

Types of Projects

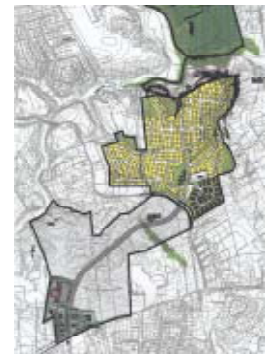
- Brick/Paver Plants
- Distribution Centers
- Economic Development

- Manufacturing Facilities
- Import Centers
- Industrial Parks
- Warehouses

OTHER DEVELOPMENT

Types of Projects

- Dam Rehabilitation
- Fairgrounds
- Parks
- Trails
- Utilities



The Bluffs at Bell Creek
Hanover County, VA

SERVICES OFFERED

- Feasibility Studies
- Concept Plans
- Opinions of Probable Costs
- Early Land Disturbance Plans
- Erosion Control Plans
- Geotechnical Investigation Coordination
- Lot Grading Plans
- Master Plans
- Plans of Development
- Rezoning, CUP, & Special Exceptions
- Storm Water Management Basin Design
- Site Observations
- Traffic Impact Studies
- As Reported Drawings

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TRANSPORTATION SERVICES

Resource incorporates transportation studies and design services in many of our projects. The transportation staff interacts with all Resource departments frequently to assist with questions of access, geometric standards, entrance permits, traffic operations, traffic generation, street design, and pavement design.



Route 106 - Roundabout



Traffic Signal



Road Design

Land Development

- Traffic Impact Studies
- Entrance Design
- Traffic Circulation
- Roundabouts
- Pavement Design
- Utility Coordination
- Pedestrian and Bicycle Facilities

Road Design

- Preliminary Plans
- Coordination with Controlling Agencies
- Construction Plans
- Maintenance of Traffic Plans
- Public Hearings
- Construction Administration



Interchange Modification

Traffic Operations

- Traffic Signal Design
- Capacity Studies
- Accident Analyses
- Intersection Analyses
- Traffic Volume Counts
- Sign Layout
- Traffic Calming



Road Layout Plan

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Key Personnel

KEY PERSONNEL

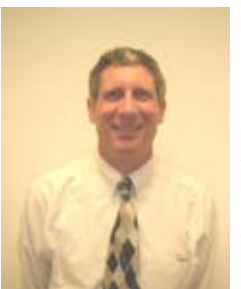
Our personnel have the knowledge and experience to provide all your solid waste, energy, and infrastructure needs. Below is a brief summary of their experience.



Mr. Michael Fiore, P.E. has over 30 years of management and engineering experience. Since 1979, Mr. Fiore, co-founder and President of Resource International, Ltd., has served as Principal-in-Charge of engineering and environmental engineering projects, ensuring both dedicated resources of the firm and quality assurance of deliverables. Mr. Fiore's areas of expertise include civil engineering; solid waste facility design; design of over 50 sanitary landfills; solid waste facility permitting; leachate and landfill gas treatment; landfill gas flaring and gas energy recovery systems; transfer station design and operation; resource/energy recovery; recycling; groundwater monitoring; landfill closure and post closure; regulatory liaison; compliance and enforcement negotiation; commercial and industrial development; water supply; wastewater systems; storm water management; environmental impact; industrial waste treatment and disposal; regional planning and resource management; and financial and technical feasibility analysis.



Mr. John L. Combs, P.E. has over 35 years of combined management and environmental experience. Since 1979, Mr. Combs, co-founder and Executive Vice President of Resource International, Ltd., has served as the Principal-in-Charge of a wide range of the firm's projects, ensuring both dedicated resources of the firm and quality assurance of deliverables. Mr. Combs' areas of expertise include environmental impact assessments; water quality modeling; municipal and industrial water and wastewater treatment plant/process design; water, wastewater and storm water transport systems; water resources management and planning; land use planning, design and development; and construction management.



Mr. Charles D. Riedlinger, P.E. has over 36 years of progressive experience in civil/environmental engineering with municipal, state, commercial/industrial and federal clients. Mr. Riedlinger has responsibility for the Engineering Department and Environmental Department at Resource. The Department is responsible for all utility and civil design as well as environmental reports and environmental site assessment. His area of expertise is in engineering planning, design, and construction for various civil projects including site plans, water and sewer projects, and industrial development projects. He has been responsible for designing water treatment plants, water storage tanks, booster stations, pressure reducing stations, sewage pump stations, collection systems, wastewater treatment plants, roads and stormwater. Mr. Riedlinger has been involved in comprehensive utility reports, equipment review, preliminary layout, cost estimates and financial studies.

READY TO SERVE YOU:

9560 Kings Charter Drive
P.O. Box 6160
Ashland, VA 23005-6160
(804) 550-9200

KEY PERSONNEL



Mr. Edward Hollos, P.E. has over 30 years experience on civil and environmental engineering projects related to the sound and economical management of municipal and industrial solid wastes. His experience includes quality assurance and quality control; development of solid waste management plans; estimating remaining life and/or capacities of solid waste facilities; facility siting studies; Part A and Part B permitting and design of both “Greenfield” sites and existing facility expansions; preparation of permit amendments; permit by rule (PBR) facilities; and landfill closures; preparation of bidding documents and provision of bid phase services and construction management activities; certification of facility construction; and development of program costs for financial assurance of facilities.

In the Commonwealth of Virginia, Mr. Hollos has worked on over 40 municipal waste, CDD, or industrial landfills involving facility permitting, new cell construction, site expansion, closure, post closure care, environmental monitoring, and operations consulting.



Mr. Charles Wilson, P.E. has over 10 years of progressive engineering experience for municipal and private clients that includes assistance in landfill development and closures of over 22 facilities encompassing site planning, design, permit application preparation, cost analyses, construction drawings, technical specifications, construction monitoring; construction documentation; Erosion and Sediment Control Plans; County site plans; SWPPP; SPCC; operational assistance, and solid waste management plans. These duties include HELP modeling (computer modeling for hydrologic/hydraulic investigation and leachate production/control), site grading and drainage plans, phase development plans, and sediment pond design. He is well versed in documentation of all aspects of the liner and cap installation

process and conducting the required field tests. Other experience in solid waste includes landfill gas system construction monitoring and conducting required field tests.



Mr. Robert Hundley, P.E. has over 15 years experience in all aspects of permitting solid waste management facility projects, cost modeling analysis, municipal budgetary processes, economic and regulatory feasibility analyses, waste characterizations, layout and design of transfer stations and drop-off facilities, development of stormwater permitting plans, and spill prevention control and counter measure plans (SPCC).

He has prepared solid waste management facility permits for industrial and commercial clients as well as municipal clients. His experience includes developing permitting plans incorporating constructed wetlands and their associated discharge. He has conducted waste characterizations at a municipal landfill and in an industrial baking facility. Mr. Hundley’s projects include work relative to commercial and municipal landfills, solid waste and medical waste transfer facilities, and various municipal solid waste management operations.

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Mr. M. Scott Courtney, P.E. has extensive experience with the design and administration of a wide variety of civil and environmental engineering projects including sewer, drainage, water, and industrial site development and planning. He specializes in the project management of such work from concept to finished construction. His primary responsibilities include project management and design of roads, water and sewer infrastructure, commercial site planning, industrial park design, and economic development initiatives.



Mr. John H. Brooks, III, PWD has over nine (9) years of experience in environmental research. He has completed coursework in Habitat Evaluation Procedures (HEP), Wetland Creation and Design, and Wetland Delineation and Permitting Strategies, and Environmental Studies, and has completed several Environmental Impact Assessments and Statements. Mr. Brooks' technical areas of expertise include wetland delineations, permitting, mitigation planning, botany, ecology, aquatic toxicology, limnology, threatened and endangered species studies, Environmental Site Assessments, and Environmental Impact Statements and Assessments. In addition, Mr. Brooks is listed on the Virginia Field Office's list of surveyors for the federally-listed sensitive joint-vetch (*Aeschynomene virginica*).



B. Meredith Winn, Jr., P.E. has a total of 41 years of combined engineering experience in the chemical and mining industries and environmental consulting. Mr. Winn gained mining industry experience while working as a design engineer for 11 years for a company involved with open pit phosphate mining, ore preparation, and beneficiaton. He was involved in the design and startup of various projects to pump ore slurry, provide hydraulic sizing, wet screening, ore flotation, and deposition of tailings. He also designed systems for ore drying, calcination, heat recovery, briquetting, air emission control, and smelting. While with Resource International, Mr. Winn has conducted projects involving mine spill plans, air permit applications, VPDES permit applications and settling pond design.



Mr. Anthony Creech, P.G. has over 23 years of progressive experience in geology, hydrogeology, due diligence, solid waste, health and safety, and environmental compliance management, research, and evaluation. His areas of expertise include geologic and hydrogeologic studies (e.g., water supply investigation, landfill siting and monitoring), site characterization, risk assessment, corrective action plans, environmental site assessments, and environmental compliance auditing. He acts as program manager for all groundwater related activities performed by the company, including monitoring programs (landfills, petroleum storage facilities, wastewater treatment facilities, etc.). Mr. Creech developed and maintains written protocols for QA/QC, statistical analyses, and training of field personnel. He has provided expert witness testimony involving real and/or alleged contamination of property.

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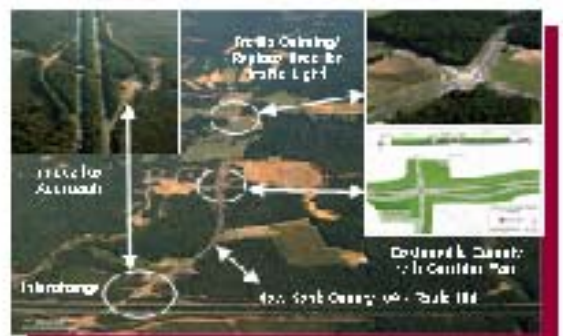
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