



**APPLIED INTELLECT**  
PROGRAM MANAGEMENT | HUMAN SERVICES | ENVIRONMENTAL SERVICES

# Markets and Services

## Contact

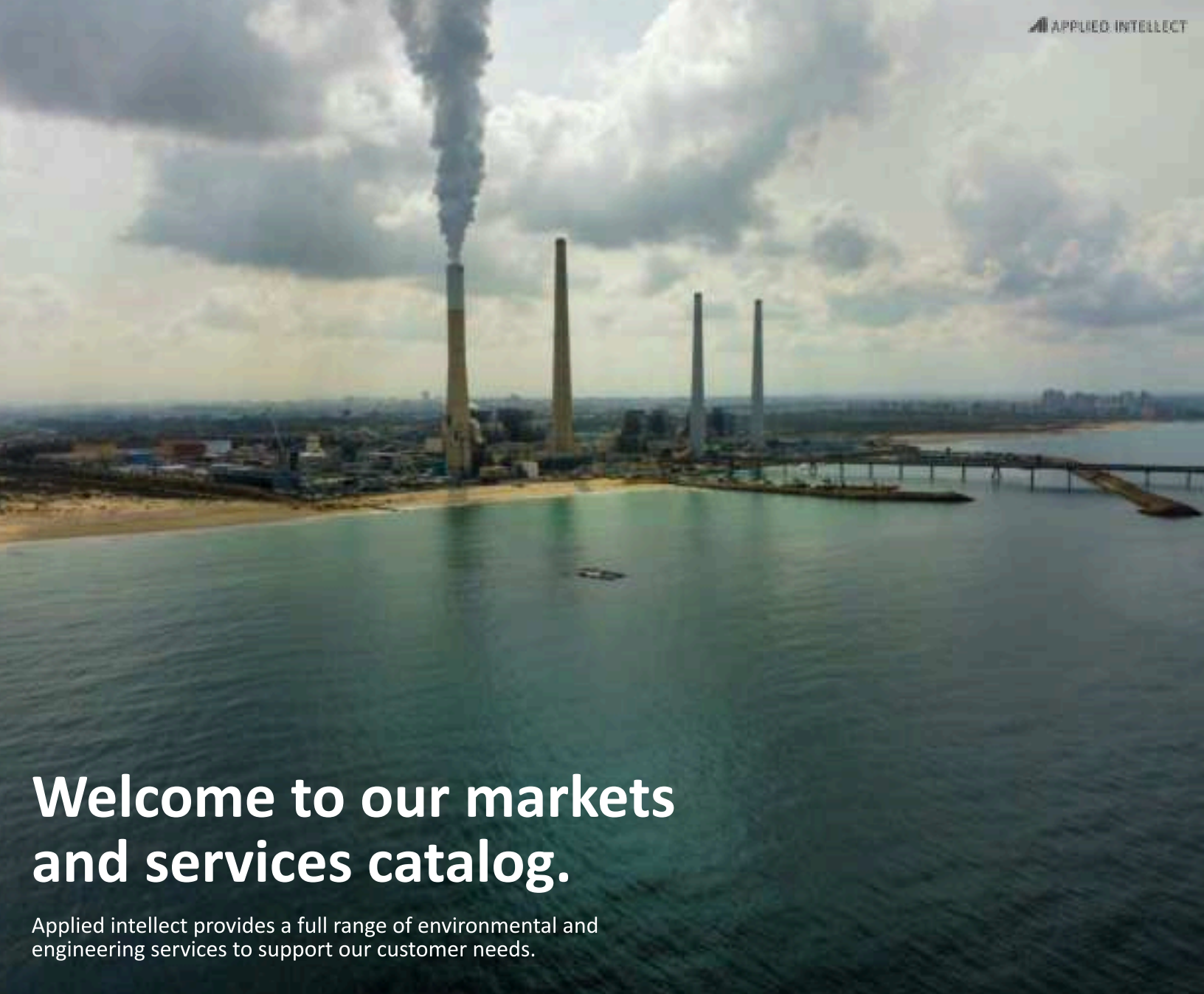
**PAUL K. HUNTER, PG**  
Vice President

E: paul.hunter@ap-in.com  
M: 208.899.6784

**Chelsea Maxfield**  
Capture Manager

E: chelsea.maxfield@ap-in.com  
M: 360.941.6298

[www.ap-in.com](http://www.ap-in.com)



# Welcome to our markets and services catalog.

Applied intellect provides a full range of environmental and engineering services to support our customer needs.

## About Us

Applied Intellect supports our customer needs in a full range of environmental and engineering service areas. We utilize the experience of our scientists, engineers, and administrative staff to provide superior quality, custom solutions on-time and within budget. Our professionals have extensive experience servicing a variety of industries and government. We provide comprehensive and fully integrated environmental and engineering services throughout all project phases for our client's unique environmental needs. We identify and investigate environmental challenges without bias, giving clients the information they need to deal with environmental issues. Applied Intellect is skilled to take on any environmental challenge, large or small, simple or complex. In addition, our innovative IT experts allow us to develop custom data management solutions for our customer's unique environmental needs.



## Services

- CERCLA/Abandoned Mine Land Studies
- Environmental Information Management Services
- Oil Well Inventory and Assessment
- Environmental Compliance
- Site Remediation/ Hazardous Waste/RCRA
- Hydrogeologic and Water Resource Studies
- Natural Resource Studies/ NEPA
- NPDES, SWPPP, SPCC Plans
- Natural Resource Studies/ Wetlands
- Wastewater Land Application/ Re-Use
- Hydrogeologic Studies
- Water Resource Investigations
- Environmental Data Management
- Program Management
- Abandoned and Operating Mine Services
- Environmental Compliance, EPCRA, TRI
- Environmental Site Assessment
- Soil and Groundwater Remediation
- CERCLA/RCRA Investigations
- Asset and Inventory Management Training
- Remediation System O&M
- Air Permitting





## Markets

- Industrial
- Mining
- Corporate
- Federal, State, Municipal
- Petroleum
- Natural Resource

## Clients

- US Forest Service
- Bureau of Land Management
- US Air Force
- National Park Service
- Department of Interior
- Department of Health and Human Services
- Department of Homeland Security
- General Services Administration
- Navy





## Environmental NAICS Codes

- 541330  
Engineering  
Services
- 541620  
Environmental  
Consulting  
Services
- 562910  
Environmental  
Remediation  
Services
- More NAICS Codes:  
541611, 541712,  
541990, 611430,  
541614

**Contract Vehicles:** Prime SeaPort NxG, GSA IT, GSA PSS, GSA 8(a) STARS III, CIO-SP3 8(a), CIO-SP3 SB, OASIS (SB)

**Certifications:** SBA 8(a), DBE/MBE, ISO 9001:2015, CMMI DEV Level 3, CMMI SVC Level 3, Salesforce Partner, AWS Partner Network

**UEI:** SKDNFVJ9K8U3, **CAGE Code:** 630X6, **TAX ID:** 45-3915838





# Projects

## ■ Post Action Monitoring Support

**Location:** 9 Historic Mining Districts on National Forests, CO

**Client:** USDA Forest Service, Region 2 National Forests

**Project Value:** \$430,709

**Project Description:** AI is contracted to support the USFS, USEPA, and Colorado Department of Reclamation Mining and Safety to evaluate historic monitoring results from nine mining districts to assess impacts of metals and acid drainage from tailings, adits, and diversions that have undergone CERCLA removal actions to assess improvements in ecological quality. Metrics include benthic macro invertebrate MMI, metals concentrations compared to table value standards (TVS), and comparison of total daily loads to TMDLs. Work includes baseline condition reports, operations and maintenance plans, sampling and analysis plans, field work and reporting.

## ■ Administrative Record Mineral Creek Mining District

**Location:** San Juan County, CO

**Client:** USDA Forest Service, San Juan National Forest

**Project Value:** \$59,980

**Project Description:** AI is contracted by the USFS to develop an Administrative Record Utility (ARU) to assist On-Scene Coordinators to develop comprehensive Administrative Record files and indexes, as required by CERCLA. The ARU is a MS Access 2013 utility, to ensure all necessary documents are indexed and filed for public review. Finally, AI will collect additional environmental data from the Mineral Creek drainage, as necessary, to ensure the USFS is meeting goals set by CERCLA Action Memorandums and Records of Decision developed for Removal Actions conducted or in progress along the Mineral Creek drainage.





AI APPLIED INTELLECT

# Projects

## ■ Nemo Work Center CERCLA Remedial Action

**Location:** Nemo Work Center, Nemo, SD

**Client:** USDA Forest Service

**Project Value:** \$1,001,346

**Project Description:** AI is providing five-year CERCLA Remedial Action support for the USFS at the Nemo Work Center, including remedial design through 5-Year Review. In 1994, the USFS discovered ethylene dibromide (EDB) in community water supply wells and constructed an emergency potable water supply system to protect the health and safety of the community. AI is implementing the interim action ROD to design, construct, and develop O&M guidance for a permanent water system for the community. AI completed the 50%, 90% and 100% design drawings and specifications for the permanent potable water storage, treatment, and distribution system serving affected members of the Nemo community. Additionally, AI constructed the permanent potable water system which consisted of the installation of approximately 1,700 feet of HDPE water main, valves, hydrants and meter pits, as well as upgrades to the water treatment and storage facilities.

## ■ Umpqua Mine EE/CA

**Location:** Douglas County, OR

**Client:** DOI Bureau of Land Management, Roseburg District Office

**Project Value:** \$59,980

**Project Description:** AI is contracted by the BLM to conduct an EE/ CA to develop remedial alternatives for this abandoned mercury mine which was active from 1918 through the 1930s. Project documents include a Work Plan, SAP, and HSP. Alternatives evaluated included: Institutional Controls; Onsite Repository; Cap and Revegetate; Offsite Disposal; or a combination of Onsite and Offsite Disposal. The project included onsite sampling of soil, stream sediment, and surface water. The project also included using an x-ray fluorescent (XRF) with laboratory correlation/ confirmation. Each alternative was analyzed for its effectiveness to reduce the site risks from metals, implementability, and cost. The preferred alternative was Onsite Repository, Cap and Revegetate.



# Projects

## ■ Mackay Site Investigation and Remediation

**Location:** Old Mackay Warehouse, Custer County, ID

**Client:** USDA Forest Service, Salmon Challis National Forests

**Project Value:** \$270,908

**Project Description:** AI is conducting a Supplemental Investigation and Site Remediation to address pentachlorophenol (PCP), PAHs, BTEXN, As, Cr and Cu as well as lead based paint (LBP) at a former wood treatment facility in Mackay, Idaho. AI developed a Work Plan and conducted a subsurface investigation for soil and water using direct push technology and installation of groundwater monitoring wells in accordance with Idaho DEQ requirements. For LBP determination, decision units were created around the exteriors of site structures, and AI collected both surface and subsurface composite soil samples using a sampling grid and random number generator approach. AI is currently designing the soil removal action to address the elevated levels in soil and remediate the site structure contaminated with LBP.

## ■ Tronox “Other Sites”

**Location:** MT, ND, SD, WY, UT, NV, ID, CO, NE, KS, AZ, NM

**Client:** USDA Forest Service, Region 1, 2, 3, and 4

**Project Value:** \$554,338

**Project Description:** AI is supporting USFS Regions 1, 2, 3, and 4 to identify Kerr-McGee/Tronox abandoned mine land (AML) environmental liability on National Forest (NF) land associated with the 80 MD settlement with the Department of Justice (DOJ). AI is using ArcGIS and Google Earth spatial analysis and search tools to extract data from a comprehensive list of Federal, and state AML databases. These databases are then merged with BLM mining claims to correlate mines with Kerr McGee claims (including successors and predecessors of Kerr McGee). ArcGIS spatial analysis tools are used to identify Kerr McGee mining claims and mine database record that are located on USFS land. Phase 2 includes focused Potentially Responsible Party (PRP) searches to identify actual Kerr McGee mining environmental liability, and to determine if a CERCLA PA/SI is warranted. AI is documenting these activities for each USFS Region with deliverables in Google Earth, ArcGIS, a CERCLA Tracking database, and periodic Assessment Reports.





# Projects

## ■ Keane Wonder Mine PRP

**Location:** Death Valley NP, CA

**Client:** National Park Service

**Project Value:** \$19,956

**Project Description:** AI is contracted by the NPS to conduct a Potentially Responsible Party (PRP) record search at the Keane Wonder Mine and Mill, located in Death Valley NP in California. AI is conducting a record review and historic research; title search; assessing the operational history; evaluating corporate history and financial viability of PRPs; and preparing a PRP Search Report.

## ■ Garfield Mine and Rainbow Falls Mine PA/SIs

**Location:** Pike-San Isabel National Forests, CO

**Client:** USDA Forest Service, Region 2

**Project Value:** \$180,945

**Project Description:** AI is supporting the PSICC to conduct CERCLA AML investigations at the Garfield Mine Area and Mineral Park settling ponds, and physical hazard mitigation at Manitou 1 Mine Shaft and Shawnee Cisterns, all located in Colorado. AI has completed PA/SI reports for the Garfield Mine Area (No Further Action Recommended) and the Mineral Park Settling Ponds (EE/CA and Removal Action Recommended) and will be moving forward with the Mineral Park EE/CA over the fall and winter of 2017. At the Shawnee Cisterns, AI has provided the USFS with cost estimates for three removal alternatives to mitigate hazards associated with five open cisterns. Anticipated closure activities are in Fall 2017. Finally, at the Manitou 1, AI has provided a closure plan to mitigate risk associated with a vertical shaft with water at approximately 30 ft below ground surface. Closure of the shaft is anticipated in 2018.

## ■ San Francisco Maritime National Historic Park Site Inspection

**Location:** San Francisco, CA

**Client:** National Park Service

**Project Value:** \$94,190

**Project Description:** AI is conducting a CERCLA Site Inspection (SI) at the San Francisco Maritime National Historic Park (NHP), located adjacent to Fisherman's Wharf and the Presidio on San Francisco Bay. The SI will determine if further action is required to evaluate environmental impacts from historic industrial activities. AI is using NPS SAP and reporting templates to conduct Incremental Sampling Method (ISM) composite soil sampling from 82 direct push borings in four Decision Units throughout the site. Results will be compared to NPS Ecological Screening Values and USEPA Regional Screening Levels (RSLs) to evaluate threats to human health.



# Projects

## ■ Emergency Response Planning

**Location:** CO, WY, SD, NE, KS

**Client:** USDA Forest Service, Region 2 National Forests

**Project Value:** \$45,434

**Project Description:** AI is developing an emergency response plan for the USFS in accordance with USFS Manual 2165 and the Stafford Act. The Plan will include a coordinated hazardous materials release response program, develop and maintain procedures for reporting and responding to releases of hazardous materials, including discharges of oil. In addition, AI will develop and implement a training program for USFS personnel, that will be presented remotely via on-line conferencing tools.

## ■ Compliance Audit Program Support

**Location:** CO, WY, SD, NE, KS

**Client:** USDA Forest Service, Region 2

**Project Value:** \$60,010

**Project Description:** AI is contracted by the USFS to evaluate compliance audit data collected between 1999 and 2015. The data will be downloaded from the USFS Mannus data files into AI's Environmental Data Management System (EDMS). Analysis will consist of development of algorithms to assess compliance trends and conduct risk analysis; evaluate root causes; and develop corrective and preventative action tracking and assessment. Deliverables will consist of presentation graphics and charts that will be updated annually, and will summarize historic and current compliance issues, and present recommendations and conclusions for corrective and preventative action.

## ■ Mattesons Groundwater Remediation

**Location:** Wilder, ID

**Client:** Mattesons Country Store

**Project Value:** \$62,238

**Project Description:** AI prepared an interim Corrective Action Plan (CAP) to address historic soil and groundwater petroleum contamination at the site. Following approval by state regulatory agencies, AI oversaw the installation of dual-completion soil vapor extraction and air sparge remediation wells. AI permitted and directed the operation of a portable high vacuum, dual phase extraction (HVDPE) remediation system to address soil and groundwater contamination.





# Projects

## ■ CERCLA Preliminary Assessment

**Location:** Lake George Work Center, Park County, CO

**Client:** USDA Forest Service, Pike-San Isabel National Forests

**Project Value:** \$60,010

**Project Description:** AI is contracted by the USFS to complete a CERCLA Preliminary Assessment and a TSCA removal action to mitigate polychlorinated biphenyls (Aroclor 1254) in a former groundwater supply well at the Lake George Work Center. The removal action will include the installation of a new water supply well for the Lake George Work Center.

## ■ Mercury Mines CERCLA PA/SI

**Location:** Chisholm and Cinnabar Mountain Mercury Mines, Jackson County, OR

**Client:** US DOI, BLM

**Project Value:** \$86,835

**Project Description:** In support of the prime contractor, AI prepared a PA/SI report in accordance with CERCLA guidance and regulations for the Cinnabar Mountain and Chisholm Mercury Mines in the Meadows Mining District of Jackson County, Oregon. These two abandoned hard rock mines included numerous adits, shafts/stopes, retorts, crushing mills and one Hereshoff furnace. In addition to these features there is an extensive historic debris halo and numerous waste rock piles.

## ■ Rolling Knolls Landfill RI/FS Technical Support

**Location:** New Jersey

**Client:** US Fish and Wildlife Service

**Project Value:** \$796,505

**Project Description:** AI conducted a supplementary Remedial Investigation/Feasibility Study (RI/FS) for the FWS to fill data gaps associated with the ongoing Rolling Knolls Landfill Superfund Site, which extends onto the Great Swamp National Wildlife Refuge (Refuge). The project included data review and summary of previous investigations and remedial alternative analyses conducted by the Responsible Parties (RPs); developing a UFP-QAPP to support data gap data quality objectives; and developing a ROM alternative analysis to complete removal of Landfill debris from the Refuge. AI conducted Data Gaps RI site characterization of surface and subsurface soil, pore water, surface water, sediments, installation of groundwater wells and groundwater sampling for VOCs, SVOCs, pesticides, PCBs and PCB congeners, dioxins/furans, TAL metals and cyanide, and PFA compounds. AI prepared a RI report including screening human health risk assessment, using Removal goals developed by the RPs; and prepared an alternatives analysis to include the FWS alternative 6, removal of all Landfill debris from the Refuge, to be included in the RPs feasibility Study Analysis.



# Projects

## ■ Aerial Drone Abandoned Oil Well Survey

**Location:** Daniel Boone National Forest, KY

**Client:** US Forest Service

**Project Value:** \$436,249

**Project Description:** AI is conducting an abandoned oil well aerial drone survey of 5,000 acres in the Daniel Boone National Forest, KY. AI is evaluating the effectiveness of various geophysical and remote sensing technologies in identifying previously unknown abandoned oil and gas wells, evaluating the effectiveness of using an aerial drone to efficiently collect data, and evaluating the feasibility of scaling up the pilot study to cover larger land areas. Results of the pilot study will help support eventual plugging of wells to allow the lands to be used for recreational activities, timber harvesting, fuels management and general use.

## ■ Rio Puerco Uranium Mine Cleanup

**Location:** Sandoval County, NM

**Client:** Bureau of Land Management

**Project Value:** \$344,296

**Project Description:** AI has completed a CERCLA removal action involving uranium mine waste and general site cleanup at the abandoned Rio Puerco Mine. AI oversaw excavation of uranium contaminated waste rock, other stockpiled material and hydrocarbon contaminated soil from prior site operations. All material was placed into two existing settling ponds, with of a 3-foot thick, clean soil cap installed over the excavated material. In addition, existing reinforced concrete foundations and site debris from historic mining operations were demolished and buried in a third existing settling pond and covered with a 3-foot cap of clean soil. All work was conducted under strict health and safety protocol.