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Exhibit R-2, RDT&E Budget Item Justification: PB 2019 Army										Date: February 2018		
Appropriation/Budget Activity 2040: Research, Development, Test & Evaluation, Army / BA 6: RDT&E Management Support					R-1 Program Element (Number/Name) PE 0605857A / Environmental Quality Technology Mgmt Support							
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
Total Program Element	-	2.048	5.087	3.216	-	3.216	4.876	2.988	3.045	3.130	0.000	24.390
031: Environmentally Sustainable Acquisition/Logistics	-	1.943	4.377	2.293	-	2.293	4.314	2.383	2.431	2.479	0.000	20.220
061: POLLUTION PREVENTION TECH SUPPORT	-	0.105	0.710	0.923	-	0.923	0.562	0.605	0.614	0.651	0.000	4.170

A. Mission Description and Budget Item Justification

This Program Element (PE) resources environmental quality technology (EQT)-related management support functions including support of research, development, test and evaluation required for EQT technical integration efforts at demonstration/validation test sites, technical information and activities, test facilities and general test instrumentation, and EQT requirement assessments. Funds required to support the management of technology transfer associated with technology demonstrated and validated as part of Army EQT projects are included in this PE. In addition, support to the Army weapon system acquisition community to address environmental quality requirements are included under the Environmentally Sustainable Acquisition/Logistics Program.

The Environmentally Sustainable Acquisition/Logistics Project includes program management for developing acquisition strategies that both achieve system key performance parameters and sustain the environment without permanent and unacceptable change in the natural environment or human health from system concept refinement through disposal. It includes systematic consideration of environmental impacts, energy use, natural resources, installation impacts, economics, and quality of life. It provides support to the system acquisition community, e.g., program and project managers, to integrate environmental quality analyses into the system acquisition process. The goal is to resolve environmental quality issues related to weapon systems that are identified during design, development, testing, operation, or support to reduce Army environmental liabilities and total ownership costs and includes efforts to eliminate the use of hazardous and ozone-depleting materials from weapon systems and facilities and to ensure the availability of Halon 1301 to support weapon system fire suppression requirements.

The Pollution Prevention Tech Support Project funds the management support costs to execute the Toxic Metals Reduction, Airborne Lead Reduction, and Low Global Warming Potential (LGWP) environmental quality technology programs.

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B. Program Change Summary (\$ in Millions)	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total
Previous President's Budget	2.130	5.087	3.480	-	3.480
Current President's Budget	2.048	5.087	3.216	-	3.216
Total Adjustments	-0.082	0.000	-0.264	-	-0.264
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.081	-			
• Adjustments to Budget Years	-	-	-0.264	-	-0.264
• FFRDC Transfer	-0.001	-	-	-	-

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Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605857A / Environmental Quality Technology Mgmt Support				Project (Number/Name) 031 / Environmentally Sustainable Acquisition/Logistics			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
031: Environmentally Sustainable Acquisition/Logistics	-	1.943	4.377	2.293	-	2.293	4.314	2.383	2.431	2.479	0.000	20.220
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The Environmentally Sustainable Acquisition/Logistics (ESAL) Project provides support to the system acquisition community to integrate environmental quality issues and concerns into the life cycle system acquisition process. To a much lesser extent, safety, occupational health and energy efficiency are also addressed. The focus of ESAL is on improving readiness, improving acquisition processes, reducing supportability burden, and minimizing total ownership cost. The Assistant Secretary of the Army for Installations, Energy and Environment has defined the functions of the ESAL project in coordination with the Army Acquisition Executive and the Assistant Secretary of the Army (Acquisition, Logistics, and Technology). This Project provides direct support to the Army acquisition community to pursue environmental sustainability and comply with legal statutes, policies and regulations during the life cycle of Army materiel. ESAL helps the Army achieve compliance with its weapon systems, industrial base, field and deployed activities directed by international treaties, Federal statutes, Executive Orders, Department of Defense (DoD) and Army policies and regulations.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2017	FY 2018	FY 2019
Title: Environmental Quality (EQ) Support	0.926	1.095	1.076
Description: Provide EQ Support to Acquisition Programs.			
FY 2018 Plans: Provide support to Program Executive Offices (PEOs) / Program Managers (PMs) to integrate EQ considerations into systems engineering activities. This includes fulfillment of National Environmental Policy Act requirements, definition of EQ technology needs to meet operational requirements, analysis of technical data to support implementation decisions, participation in technical and cost risk assessment activities, and assessment and revision of contractual and operational requirements for successful technology integration, operation and support. Analyze impending legal statutes impacting production, operation and support of weapon systems. Assess weapon system readiness impacts (e.g., production levels, training, operational tempo and maintenance activities) resulting from EQ issues affecting industrial base and garrisons. Provide Army acquisition community representation in select Office of the Secretary of Defense (OSD) and Department of the Army (DA) committees addressing environmental legislation and rulemaking.			
FY 2019 Plans: Will provide support to PEOs/PMs to integrate EQ considerations into systems engineering activities. This will include fulfillment of National Environmental Policy Act requirements, definition of EQ technology needs to meet operational requirements, analysis of technical data to support implementation decisions, participation in technical and cost risk assessment activities, and assessment			

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B. Accomplishments/Planned Programs (\$ in Millions)			FY 2017	FY 2018	FY 2019
and revision of contractual and operational requirements for successful technology integration, operation and support. Will analyze impending legal statutes impacting production, operation and support of weapon systems. Will assess weapon system readiness impacts (e.g., production levels, training, operational tempo and maintenance activities) resulting from EQ issues affecting industrial base and garrisons. Will provide Army acquisition community representation in select OSD and DA committees addressing environmental legislation and rulemaking. FY 2018 to FY 2019 Increase/Decrease Statement: Decrease to FY19 in accordance with senior leader priorities.					
Title: Environmental Quality Technology Management Description: Provide management support for Army EQ technology efforts. FY 2018 Plans: Provide system acquisition support to the Army's EQ technology program and coordination of EQ-related systems' needs for expanded Research and Development, Test and Evaluation (RDTE) efforts. Manage and oversee technology integration efforts by Army Life Cycle Management Commands for weapon systems in all stages of design, procurement and operations/support. Coordinate RDTE requirements among members of the Army EQ Technology Teams, will coordinate technology evaluations and operational requirements in support of weapon system platform integration, manage and oversee test plan development, oversee testing activities, and analyze test results to support weapon systems engineering decision making. FY 2019 Plans: Will provide system acquisition support to the Army's EQ technology program and coordination of EQ-related systems' needs for expanded RDTE efforts. Will manage and oversee technology integration efforts by Army Life Cycle Management Commands for weapon systems in all stages of design, procurement and operations/support. Will coordinate RDTE requirements among members of the Army EQ Technology Teams, will coordinate technology evaluations and operational requirements in support of weapon system platform integration, will manage and oversee test plan development, will oversee testing activities, and will analyze test results to support weapon systems engineering decision making. FY 2018 to FY 2019 Increase/Decrease Statement: FY19 shifted resources within this PE/Project to better align with complementary Operations and Maintenance, Army (OMA) program.			0.634	0.749	1.217
Title: Ozone Depleting Substance Management Description: Oversee Army efforts to manage the use/elimination of ozone depleting substances on Army weapon systems. FY 2018 Plans:			0.383	0.453	-

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B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018
<p>Oversee Army efforts to manage the use/elimination of ozone-depleting substances on Army weapon systems. Monitor the Army's reserve of ozone-depleting substances that contains the Army's strategic supplies of Halon used for explosion and fire suppression systems and R-22 used in fielded environmental control units. Coordinate with PEOs/PMs to affect system replacement and retrofit to eliminate ozone depleting substances while minimizing greenhouse gases and to obtain approval to require use of Halon in new contracts.</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: Decrease to FY19 in accordance with senior leader priorities.</p>			
<p>Title: Headquarters Army Environmental System (HQAES)</p> <p>Description: Headquarters Army Environmental System support.</p> <p>FY 2018 Plans: Support HQAES modifications recommended by Configuration Control Management Board in order to support network security worthiness.</p> <p>FY 2018 to FY 2019 Increase/Decrease Statement: FY19 decrease reflects a funding cycle of every other year for this effort.</p>		-	2.080
Accomplishments/Planned Programs Subtotals		1.943	2.293
<p>C. Other Program Funding Summary (\$ in Millions) N/A</p> <p>Remarks</p> <p>D. Acquisition Strategy N/A</p> <p>E. Performance Metrics N/A</p>			

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Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605857A / Environmental Quality Technology Mgmt Support				Project (Number/Name) 06I / POLLUTION PREVENTION TECH SUPPORT			
COST (\$ in Millions)	Prior Years	FY 2017	FY 2018	FY 2019 Base	FY 2019 OCO	FY 2019 Total	FY 2020	FY 2021	FY 2022	FY 2023	Cost To Complete	Total Cost
06I: POLLUTION PREVENTION TECH SUPPORT	-	0.105	0.710	0.923	-	0.923	0.562	0.605	0.614	0.651	0.000	4.170
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

This Project provides RDTE Management Support for the demonstration and validation of weapon system pollution prevention technologies within the Army's Environmental Quality Technology program. The Project increases operational sustainment and warfighter training capabilities by reducing soldier and worker health risks and environmental impacts that would otherwise result in restoration needs and compliance enforcement actions against installations while simultaneously increasing performance and standardization across the Army. This Project provides for management of RDTE activities conducted under project 0603779A, Environmental Quality Technology Dem/Val (E21). The Project expedites technology transition from the laboratory to operational use by establishing toxicology assessments to support the demonstration of new materials and processes fulfilling the performance requirements outlined in Material Specifications, Depot Maintenance Work Requirements, Technical Manuals, Drawings and other technical data.

B. Accomplishments/Planned Programs (\$ in Millions)

	FY 2017	FY 2018	FY 2019
Title: Management of Army Environmental Quality Technology Programs Description: Manage and oversee the demonstration/validation of weapon system pollution prevention technologies within the Army's Environmental Quality Technology Program. FY 2018 Plans: Manage and oversee the demonstration/validation of two pollution prevention technology efforts: Toxic Metal Reduction in Surface Finishing of Army Weapon Systems, and Airborne Lead Reduction from Army Weapon Systems. FY 2019 Plans: Will manage and oversee the demonstration/validation of three pollution prevention technology efforts: Toxic Metal Reduction in Surface Finishing of Army Weapon Systems, Airborne Lead Reduction from Army Weapon Systems, and Low Global Warming Potential Alternatives to Ozone Depleting Substances. FY 2018 to FY 2019 Increase/Decrease Statement: FY2018 includes toxicity assessments that will not be repeated in FY19.	0.105	0.710	0.435
Title: Environmental, Safety and Occupational Health Impacts of Short-Term Noise Assessment Procedures Description: Manage and oversee the demonstration and validation of technologies for making Army blast noise short-term noise assessment.	-	-	0.253

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Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605857A / <i>Environmental Quality Technology Mgmt Support</i>	Project (Number/Name) 061 / <i>POLLUTION PREVENTION TECH SUPPORT</i>	
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2017	FY 2018
<i>FY 2019 Plans:</i> Will develop training modules for using short-term noise assessment tools. These self-guided on-line training modules will be for use by installation range managers and address the use of short-term noise assessment procedures and interpretation of results to minimize risk to training and maximize training throughput.			
<i>FY 2018 to FY 2019 Increase/Decrease Statement:</i> FY19 initiates funding for this task.			
<i>Title:</i> Advanced Water Reuse Technology for Fixed Installations <i>Description:</i> Advanced water reuse technologies demonstration and guidance for Army fixed installations applications.		-	-
<i>FY 2019 Plans:</i> Will generate a report that summarizes the results of the demonstration study and recommends updates to guidance documents from Army Public Health Center and Unified Facilities Criteria.			
<i>FY 2018 to FY 2019 Increase/Decrease Statement:</i> FY19 initiates funding for this task.			
Accomplishments/Planned Programs Subtotals		0.105	0.710
C. Other Program Funding Summary (\$ in Millions)			
N/A			
Remarks			
D. Acquisition Strategy			
N/A			
E. Performance Metrics			
N/A			