Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army

Date: May 2017

Appropriation/Budget Activity R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 6: RDT&E PE 0605857A I Environmental Quality Technology Mgmt Support

Management Support

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COST (\$ in Millions)	Prior			FY 2018	FY 2018	FY 2018					Cost To	Total
COST (\$ III MIIIIOIIS)	Years	FY 2016	FY 2017	Base	oco	Total	FY 2019	FY 2020	FY 2021	FY 2022	Complete	Cost
Total Program Element	-	3.673	2.130	5.087	-	5.087	3.480	3.153	3.176	2.918	-	-
031: Environmentally Sustainable Acquisition/Logistics	-	3.411	2.020	4.377	-	4.377	2.425	2.472	2.524	2.422	-	-
061: POLLUTION PREVENTION TECH SUPPORT	-	0.262	0.110	0.710	-	0.710	1.055	0.681	0.652	0.496	-	-

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 and Airborne Lead Reduction environmental quality technology programs.

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army

Date: May 2017

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

2040: Research, Development, Test & Evaluation, Army I BA 6: RDT&E

PE 0605857A I Environmental Quality Technology Mgmt Support

Management Support

B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	3.186	2.130	4.542	-	4.542
Current President's Budget	3.673	2.130	5.087	-	5.087
Total Adjustments	0.487	0.000	0.545	-	0.545
 Congressional General Reductions 	-	-			
 Congressional Directed Reductions 	-	-			
 Congressional Rescissions 	-	-			
 Congressional Adds 	-	-			
 Congressional Directed Transfers 	-	-			
 Reprogrammings 	0.612	_			
SBIR/STTR Transfer	-0.125	-			
Adjustments to Budget Years	0.000	0.000	0.545	-	0.545

Change Summary Explanation

Fiscal Year (FY) 2016 funding increase to support Environmentally Sustainable Acquisition/Logistics.

FY 2018 increase of \$0.545M supports pollution prevention technology support efforts.

Exhibit R-2A, RDT&E Project Ju	stification	: FY 2018 A	rmy							Date: May	2017	
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605857A I Environmental Quality Technology Mgmt Support Project (Number/Name) 031 I Environmentally Sustainal Acquisition/Logistics					,		
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
031: Environmentally Sustainable Acquisition/Logistics	-	3.411	2.020	4.377	-	4.377	2.425	2.472	2.524	2.422	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

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

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.

D. Addomptionmentor latined i regramo (4 in miniono)	1 1 2010	1 1 2017	1 1 2010
Title: Environmental Quality (EQ) Support	1.096	0.963	1.095
Description: Provide EQ Support to Acquisition Programs.			
FY 2016 Accomplishments: Provided support to Program Executive Officers and Program Managers (PEOs/PMs) to integrate EQ considerations into systems engineering activities. This included 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. Analyzed impending legal statutes impacting production, operation and support of weapon systems. Assessed weapon system readiness impacts (e.g. production levels, training, operational tempo and maintenance activities) resulting from EQ issues affecting industrial base and garrisons. Provided Army acquisition community representation in select Office of the Secretary of Defense (OSD) and Department of Army (DA) committees addressing environmental legislation and rulemaking.			
FY 2017 Plans: Provide support to PEOs/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			

FY 2016 FY 2017

FY 2018

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army			Date: M	ay 2017			
2040 / 6 PE 0605857A / Environmental Quality 031 /				roject (Number/Name) 31 / Environmentally Sustainable cquisition/Logistics			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2016	FY 2017	FY 2018		
and revision of contractual and operational requirements for success impending legal statutes impacting production, operation and supposimpacts (e.g., production levels, training, operational tempo and maindustrial base and garrisons. Provide Army acquisition community environmental legislation and rulemaking.	ort of weapon systems. Assess weapon system readines intenance activities) resulting from EQ issues affecting	ss					
FY 2018 Plans: Will provide support to PEOs/PMs to integrate EQ considerations in of National Environmental Policy Act requirements, definition of EQ analysis of technical data to support implementation decisions, part and assessment and revision of contractual and operational require support. Will analyze impending legal statutes impacting production weapon system readiness impacts (e.g., production levels, training, EQ issues affecting industrial base and garrisons. Will provide Arm committees addressing environmental legislation and rulemaking.	technology needs to meet operational requirements, icipation in technical and cost risk assessment activities, ements for successful technology integration, operation and, operation and support of weapon systems. Will assess operational tempo and maintenance activities) resulting	nd s from					
Title: Environmental Quality Technology Management			0.825	0.659	0.749		
Description: Provide management support for Army EQ technology	y efforts.						
FY 2016 Accomplishments: Provided system acquisition support to the Army's EQ technology p expanded Research, Development, Test and Evaluation (RDTE) eff by Army Life Cycle Management Commands for weapon systems in Coordinated RDTE requirements among members of the Army EQ operational requirements in support of weapon system platform integrating activities, and analyzed test results to support weapon system.	forts. Managed and oversaw technology integration efform all stages of design, procurement and operations/supportechnology Teams; coordinated technology evaluations egration; managed oversaw test plan development; overs	ts ort. and					
FY 2017 Plans: Provide system acquisition support to the Army's EQ technology proexpanded RDT&E efforts. Manage and oversee technology integral weapon systems in all stages of design, procurement and operation of the Army EQ Technology Teams, coordinate technology evaluation platform integration, manage and oversee test plan development, or weapon systems engineering decision making.	ntion efforts by Army Life Cycle Management Commands ns/support. Coordinate RDT&E requirements among mentions and operational requirements in support of weapons	for mbers system					
FY 2018 Plans:							

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army		Date	May 2017		
Appropriation/Budget Activity 2040 / 6	031 I Environme	roject (Number/Name) 31 I Environmentally Sustainable cquisition/Logistics			
B. Accomplishments/Planned Programs (\$ in Millions)		FY 2016	FY 2017	FY 2018	
Will provide system acquisition support to the Army's EQ technology interpretate and oversee technology into the Army systems in all stages of design, procurement and open members of the Army EQ Technology Teams, will coordinate technology system platform integration, will manage and oversee to analyze test results to support weapon systems engineering decisions.	tegration efforts by Army Life Cycle Management Commar rations/support. Will coordinate RDTE requirements amor nology evaluations and operational requirements in supportest plan development, will oversee testing activities, and we	nds ng ort			
Title: Ozone Depleting Substance Management		0.39	0.398	0.45	
Description: Oversee Army efforts to manage the use/elimination	n of ozone depleting substances on Army weapon systems	5.			
FY 2016 Accomplishments: Oversaw Army efforts to manage the use/elimination of ozone-depthe Army's reserve of ozone-depleting substances that contains the suppression systems and R-22 used in fielded environmental replacement and retrofit to eliminate ozone depleting substances require use of Halon in new contracts.	ne Army's strategic supplies of Halon used for explosion an control units. Coordinated with PEOs/PMs to affect system	m			
FY 2017 Plans: Oversee Army efforts to manage the use/elimination of ozone-dep Army's reserve of ozone-depleting substances that contains the A fire suppression systems and R-22 used in fielded environmental replacement and retrofit to eliminate ozone depleting substances require use of Halon in new contracts.	army's strategic supplies of Halon used for explosion and control units. Coordinate with PEOs/PMs to affect system				
FY 2018 Plans: Will oversee Army efforts to manage the use/elimination of ozone- the Army's reserve of ozone-depleting substances that contains the fire suppression systems and R-22 used in fielded environmental replacement and retrofit to eliminate ozone depleting substances require use of Halon in new contracts.	ne Army's strategic supplies of Halon used for explosion an control units. Will coordinate with PEOs/PMs to affect sys	nd etem			
Title: Headquarters Army Environmental System (HQAES)		1.09	9 -	2.08	
Description: Headquarters Army Environmental System support.					

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Exhibit R-2A, RDT&E Project Justification: FY 2018 Army			Date: May 2017			
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605857A I Environmental Quality Technology Mgmt Support	031/	ct (Number/l Environment sition/Logistic	ally Sustainab	nle	
B. Accomplishments/Planned Programs (\$ in Millions) Supported HQAES modifications recommended by Configuration worthiness.	on Control Management Board in order to support network s	ecurity	FY 2016	FY 2017	FY 2018	
FY 2018 Plans: Will support HQAES modifications recommended by Configurations security worthiness.	ntion Control Management Board in order to support network					
	Accomplishments/Planned Programs Su	btotals	3.411	2.020	4.377	

C. Other Program Funding Summary (\$ in Millions)

N/A

Remarks

D. Acquisition Strategy

N/A

E. Performance Metrics

N/A

Exhibit R-2A, RDT&E Project Ju	stification	: FY 2018 A	ırmy							Date: May	2017	
Appropriation/Budget Activity 2040 / 6					R-1 Program Element (Number/Name) PE 0605857A I Environmental Quality Technology Mgmt Support Project (Number/Name) 061 I POLLUTION PREVENTING SUPPORT					,	TECH	
COST (\$ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
061: POLLUTION PREVENTION TECH SUPPORT	-	0.262	0.110	0.710	-	0.710	1.055	0.681	0.652	0.496	-	-
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

accomplishments/Diamond Drawrows (C in Millians)

This Project provides Research, Development, Test and Evaluation (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 2016	FY 2017	FY 2018
Title: Management of Army Environmental Quality Technology Programs	0.262	0.110	0.710
Description: Manage and oversee the demonstration/validation of weapon system pollution prevention technologies within the Army's Environmental Quality Technology Program.			
FY 2016 Accomplishments: Managed and oversaw 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 2017 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 2018 Plans: Will 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.			
Accomplishments/Planned Programs Subtotals	0.262	0.110	0.710

C. Other Program Funding Summary (\$ in Millions)

N/A

Exhibit R-2A, RDT&E Project Justification: FY 2018 Ar	rmy	Date: May 2017
Appropriation/Budget Activity 2040 / 6	R-1 Program Element (Number/Name) PE 0605857A I Environmental Quality Technology Mgmt Support	Project (Number/Name) 06I I POLLUTION PREVENTION TECH SUPPORT
C. Other Program Funding Summary (\$ in Millions)		
Remarks		
D. Acquisition Strategy		
N/A		
E. Performance Metrics		
N/A		