

**QUALITY ASSURANCE PLAN  
FOR  
TONAWANDA LANDFILL FUSRAP VICINITY PROPERTY  
REMEDIAL INVESTIGATION / FEASIBILITY STUDY  
SCIENCE APPLICATIONS INTERNATIONAL CORPORATION**

**1.0 INTRODUCTION**

This Quality Assurance Plan (QAP) describes how the product to be produced by the Contractor will be reviewed by in-house project team members to assure effectiveness of the Contractor's Quality Control Plan (QCP). As part of the Contractor's QC process, an Independent Technical Review (ITR) is to be performed by the Contractor who will select ITR team members not involved in the product development. CELRD 5-1-1 and the CELRB QMP give Buffalo District the responsibility for developing and executing the QAP. The purpose of the QAP is to assure that the mechanisms of Quality Control developed and implemented by the contractor are working properly.

**2.0 PROJECT INFORMATION**

Project Name: Tonawanda Landfill FUSRAP Vicinity Property  
 Project Location: Tonawanda, NY  
 Project Description: Remedial Investigation / Feasibility Study  
 Client: Congress

Administering Agency: USACE, Buffalo District  
 Project Manager: [REDACTED]  
 Project Engineer: [REDACTED]

Regulatory Agency: New York State Department of Environmental Conservation  
 Project Manager: [REDACTED]

Contractor: Science Applications International Corporation  
 Contract Number: DAHA90-94-D-0007-DN05  
 Project Manager: [REDACTED]

**3.0 REFERENCES**

- a. CELRD 5-1-1 Great Lakes and Ohio River Division Quality Management Plan
- b. LRB QMP - Buffalo District Quality Management Plan

## 4.0 REVIEW MILESTONES

<u>Milestone</u>	<u>Completion Date</u>
Contractor QCP	3/27/00
In-House Certification of Contractor QCP	4/3/00
Draft Project Work Plan and ITR	4/10/00
Quality Assurance Team (QAT) and HTRW-CX Review	5/1/00
State & Property Owner Review	6/14/00
Final Project Work Plan	6/28/00
Fate & Transport Analysis Tech Memo and ITR	8/23/00
Draft SSHP, RPP, FSP, & QAPP and ITR	9/6/00
QAT and HTRW-CX Review	9/27/00
State & Property Owner Review	11/10/00
Final SSHP, RPP, FSP & QAPP	11/24/00
Draft Remedial Investigation/Feasibility Study Report and ITR	4/27/01
QAT Review	5/18/01
HTRW-CX Review	6/22/01
Final RI/FS Report	7/6/01
Draft Proposed Plan (PP) and ITR	8/3/01
QAT Review	8/24/01
HTRW-CX Review	9/28/01
State Review	11/11/01
Final Proposed Plan	11/25/01
Draft Record of Decision and ITR	1/29/02
QAT Review	2/19/02
HTRW-CX Review	3/26/02
State Review	5/9/02
Final Record of Decision	5/30/02

## 5.0 QUALITY ASSURANCE TEAM (QAT)

The Quality Assurance Team (QAT) is responsible for the implementation of the QAP. The QAT is formed as shown in the table below. The specific responsibilities of the QAT members are defined in paragraph 6.

<u>Discipline</u>	<u>Member</u>	<u>Grade</u>	<u>Office Symbol</u>
Project Manager	██████████	GS-12	CELRB-PM-F
Project Engineer	██████████	GS-12	CELRB-PE-EE
Chemist	██████████	GS-11	CELRB-PE-EA
Health Physicist	██████████	GS-11	CELRB-PE-EA
Safety Officer	██████████	GS-12	CELRB-PE-EA
Risk Assessor	██████████	GS-12	CELRB-ED-E-E
Hydrogeologist	██████████	GS-12	CELRB-PE-HH
Cost Engineer	██████████	GS-12	CELRB-PE-DE

<u>Discipline</u>	<u>Member</u>	<u>Grade</u>	<u>Office Symbol</u>
Counsel	[REDACTED]	GS-13	CELRB-OC
Real Estate	[REDACTED]	GS-12	CELRE-RE-A
Public Affairs	[REDACTED]	Contr.	CELRB-PA
Civil Engineer	[REDACTED]	GS-12	CELRB-PE-DC
Quality Coordinator	[REDACTED]	GS-12	CELRB-PE-S

## **6.0 QUALITY ASSURANCE PLAN ACTIVITIES**

To comply with the requirements of quality assurance for this project, the team members will be involved specifically in the activities identified on the attached Project Document Control List, based on the submittal register from the SOW.

## **7.0 FIELD QUALITY ASSURANCE ACTIVITIES**

A representative from the Corps of Engineers will be present on-site for all investigative field work activities conducted under this project. This representative will perform on-site quality assurance for the field work activities.

**Signatures:**

The Document Preparer has coordinated with the Project Manager and the section team leaders to verify that the team members listed are available and committed to participate as specified in the plan.

**Prepared by:**

  
\_\_\_\_\_  
, Project Engineer, CERLB-PE-EE

4/13/00  
Date

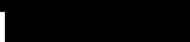
**Reviewed by:**

  
\_\_\_\_\_  
 Project Manager, CELRB-PM-F  
  
\_\_\_\_\_  
 QA/QC Coordinator, CELRB-PE-S

4/13/2000  
Date

4/14/00  
Date

**Approved by:**

  
\_\_\_\_\_  
, Chief, Engineering & Planning Division

4/14/00  
Date

# PROJECT DOCUMENT CONTROL LIST

CONTRACT NO:

PROJECT TITLE:

CONTRACTOR:

Science Applications International Corporation

TASK ORDER:

CONTROL	TRANSMITTAL	ITEM NO.	DOCUMENT NAME	TYPE OF DOCUMENT							REVIEW				GOVERNMENT ACTION		REMARKS	
				SOW	WORK PLANS	ROD	PROPOSED PLAN	TEST/FIELD DATA	EE/CA	REPORT	OTHER	SENT TO	DATE SENT	COMMENT DUE DATE	COMMENT RECEIVED	DATE RETURNED TO CONTRACTOR		CODE
	1	1	Quality Control Plan								X	[REDACTED]	3/30/00	4/7/00	4/12/00	4/13/00	C	<i>FINAL RECEIVED FINAL ACCEPTED</i>
											X	[REDACTED]	3/30/00	4/7/00	4/11/00	4/13/00	A	
											X	C. Forget	3/30/00	4/7/00	4/5/00	4/13/00	C	
	2	1	Project Work Plan		X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
	3	1	Fate & Transport Tech Memo								X	[REDACTED]						
											X	[REDACTED]						
											X	[REDACTED]						
											X	[REDACTED]						
											X	[REDACTED]						
	4	1	Site Safety and Health Plan		X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
	4	2	Radiation Protection Plan		X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
	4	3	Field Sampling Plan		X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						
					X							[REDACTED]						



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							X	X										
							X											
							X											
	7	1	Record of Decision				X											
							X											
							X											
							X											
							X											
							X											
							X											
							X											
							X											
							X											
							X											
							X											
							X											

**GOVERNMENT ACTION CODE KEY:**

- A Approved as submitted
- B Approved, except as noted on drawing or attached memorandum.
- C Approved, except as noted on drawing or attached memorandum. Resubmission required.
- D Will be returned under separate correspondence.
- E Disapproved (see attached), resubmission required.
- F Receipt acknowledged.
- FX Receipt acknowledged, does not comply with contract requirements as noted .
- G Other (Specify).

**DATE KEY:**

- (DDMMYY) Projected Date
- DDMMYY Actual Date
- DDMMYY Actual Date (Late)