



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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CERTIFICATION AND AGREEMENT

Applicant Name: Kittitas County Public Health Department
Maximum Eligible Cost: \$23,156
State Share: \$17,367

The undersigned representative certifies that the information submitted herewith is true and correct to the best of their knowledge and belief, and that they are authorized to submit this application.

The applicant agrees that if a grant is awarded on the basis of this application or any revision or amendment thereof, it will comply with all applicable statutory provisions, and with the applicable terms, conditions, and procedures of the Department of Ecology grant regulations and of the grant agreement. Final agreement budget's are based on approved scopes of work and funds available.

Signature of Authorized Official (blue ink)

Name (printed)

Title of Official

Date

Task Title:

Remote Solid Waste and Hazardous Waste Complaint Investigation and Surveillance – Acquisition, Capability Testing, Legal Determination, and Implementation

Task Description:

Kittitas County Public Health Department (KCPHD) seeks to acquire long range high definition day/night-time compatible remote video/photo surveillance equipment. KCPHD will work to determine their maximum capabilities during the testing phase for use while investigating solid and hazardous waste complaints (SHWC) and follow up enforcement to ensure compliance with local and state regulations WAC 173-350 and 173-351. Abatement and follow up enforcement of SHWC will ensure that public nuisances and environmental health impacts that are minimized. Enforcement is difficult when the responsible party for a dumping is unknown or is not held accountable. Due to the nature of this project legal guidance will be sought, program policy will be developed to provide guidance and limitations for the collection/retention of data. The use of surveillance equipment will allow KCPHD to remotely monitor areas of known dumping issues with the goal of attempting to hold the responsible party accountable.

Goal Statement:

To determine maximum capabilities and limitations for the use of remote video/photo surveillance equipment while investigating solid and hazardous waste complaints, illegal dumping events, and follow up enforcement to determine and attempt to hold the responsible party accountable with local and state regulations such as WAC 173-350 and 173-351 in Kittitas County.

Outcome Statement:

KCPHD will work to determine minimum and maximum distances to determine license plate identification and facial recognition during both day and night-time situations during the capability testing phase. Maximum video recording times will be determined and it is expected that a rating system will be developed to determine the different camouflage coverings and positions that are best suited to avoid detection by violators. Program policy will be developed to provide staff with guidance to execute the proper legal procedures to gather and maintain surveillance data. It is anticipated that identifiable information will be obtained about a violator at a higher rate and will take less time utilizing remote video/photo surveillance equipment during a solid or hazardous waste investigation at an area known for dumping issues as compared to a traditional investigation that does not utilize surveillance equipment. It is estimated that it will take 50% less time to obtain identifiable information about the violator during a solid or hazardous waste investigation.

Other Outcomes:

A determination of field battery life duration, solid waste program policy for data collection and retention of identifiable information, and legal limitations to obey while collecting data. A increased rate of deterrence of solid and hazardous waste dumping events, improved health of the environment, and a

reduction in the cost of attempting to obtain identifiable information about a violator while conducting a solid and hazardous waste dumping investigation.

Demonstrated Need:

Unless a responsible party for a solid or hazardous waste dumping is caught in the act, it is often difficult if not impossible to hold the party accountable. In these unfortunate circumstances the property owner ends up being responsible for abating the nuisance and can become frustrated by multiple offences often by a single violator that cannot be identified. This project will allow KCPHD to remotely monitor these areas of solid and hazardous waste dumping issues, develop program policy that meets legal criteria with the overall goal of determining the responsible party and holding them accountable for the offense to the extent possible.

Regional Coordination and Partnerships:

If funded KCPHD would share surveillance equipment with Kittitas County Code Enforcement as they typically respond to solid and hazardous waste complaint investigations while coordinating with KCPHD.

Sustainability:

KCPHD will be able to obtain identifiable information more efficiently which may be used to hold illegal dumpers accountable more frequently, thereby reducing future solid or hazardous waste dumping events if violators know or fear that they may be caught. If illegal dumping events occur less frequently, then environmental impacts of improper disposal are reduced and recycling may increase as the potential violator attempts to avoid the cost of tipping fees and disposal. Surveillance equipment will enable KCPHD to utilize less staff resources in an economically viable fashion which will reduce the cost of investigating illegal dumping complaints in an attempt to retrieve identifiable information about the violator. If funded and if surveillance equipment can be successfully utilized in solid and hazardous waste enforcement, then a recommendation will be made that a portion of any fines or penalties will be retained to replace equipment as determined by KCPHD.

Work Plan, Deliverable, and Timeline:

Q3

Research different remote video and camera surveillance equipment to determine which manufactures and models provides the most flexibility and are within budgetary restrictions. Determine legal restrictions for obtaining and maintaining identifiable information. Begin program policy development. Acquire equipment and start performing capability testing to determine limitations, best position mounting, long-term data storage options, and camouflage type for use while investigating solid and hazardous waste investigations and follow up enforcement to ensure compliance with local and state regulations WAC 173-350 and 173-351 in Kittitas County. Report findings to DOE quarterly ongoing July 2012 - June 2013. - Purchase laptop computer.

Q4

Continue field capability testing to determine limitations and practices that promote efficient use of remote surveillance equipment, limitations of identifiable information, and safe handling/protection of equipment. Continue program policy development. Begin to deploy equipment in the field during solid and hazardous waste investigations if program policy is in place and all findings are satisfactory and limitations are known. Report findings to DOE quarterly ongoing July 2012 – June 2013. – Purchase additional equipment or materials as needed.

Q5

Continue field capability testing if needed. Finish program policy if not already in place. Field deployment during solid and hazardous waste investigations to ensure compliance with local and state regulations WAC 173-350 and 173-351 in Kittitas County. Report findings to DOE quarterly ongoing July 2012 – June 2013. – Purchase additional equipment or materials as needed.

Q6

Continue field capability testing if needed. Finish program policy if not already in place. Field deployment during solid and hazardous waste investigations to ensure compliance with local and state regulations WAC 173-350 and 173-351 in Kittitas County. Report findings to DOE quarterly ongoing July 2012 – June 2013. – Purchase additional equipment or materials as needed.

Method of Evaluation:

Lengths of minimum and maximum distances that license plate identification and facial recognition can be accomplished during both day and night-time situations during field capability testing. Maximum recording duration and best camouflage types and positions. Development of program policy that has legal review to ensure requirements for obtaining and maintaining identifiable information are obeyed. Rates that identifiable information about a violator is obtained and time taken to investigate, identifiable information obtained about the violator, and capability of holding violator accountable.

Target Audience:

Citizen's and Violator's of Kittitas County

Total Task Cost:\$23,156**Spending Plan Quarter Costs/Totals for 12 month Grant Cycle**

Expenditure Type		Q1	Q2	Q3	Q4	Q5	Q6
1	Salaries	-	-	\$4,500	\$3,750	\$3,250	\$2,625
2	Overhead	-	-	\$1,125	\$938	\$813	\$656
3	Travel	-	-	\$0	\$0	\$0	\$0
4	Contract Services	-	-	\$0	\$0	\$0	\$0
5	Purchases	-	-	\$3,250	\$1,250	\$750	\$250
Spending Plan Totals		-	-	\$8,875	\$5,938	\$4,813	\$3,531

Spending Plan Quarter Costs/Totals for 12 month Grant Cycle - CONTINUED

Total Eligible Cost By Expenditure		
1	Salaries	\$14,125
2	Overhead	\$3,531
3	Travel	\$0
4	Contract Services	\$0
5	Purchases	\$5,500
Total Eligible Cost		State Grant Share
\$23,156		\$17,367