
From: Patterson, Kaleo
To: Miyamoto, Faith; dshideler@culturalsurveys.com; Hal Hammatt
CC: Spurgeon, Lawrence; Hamayasu, Toru; Tam, Ryan; Kehau Abad
Sent: 6/1/2009 8:06:28 AM
Subject: FW: Hawaiian Burials
Attachments: EM_Appdx_forensics.doc; graves_gpr_historic_archaeology[1].pdf; Iwi Kupuna Hawaiian Burials.doc; MAGNETIC SURVEYING.doc; NECQUES.DOC

FYI

Kaleo Patterson

Environmental Compliance
Honolulu High Capacity Transit Corridor Project
T. 808 768-6176
E. kpatterson@honolulu.gov

From: clark davenport [mailto:geoforensics@comcast.net]
Sent: Sunday, May 31, 2009 1:23 PM
To: Patterson, Kaleo
Subject: Re: Hawaiian Burials

See attached - you have done a good job on this!

Two other attachments - magnetics and electromagnetics.

A forensic geophysicist in my world is a specialist in remote sensing as it can be applied to criminal investigations. I call myself that since I have a Professional Degree in geophysics (Geophysical Engineer), an AS in Criminal Justice and have used remote sensing methods for over 20 years to investigate criminal activities (see NecroSearch.org)

Practitioners in your area - I can only recommend those I have worked with, and I have not had the pleasure to work with any from Hawaii. You need to look at the websites of the two prominent GPR manufacturers, Geophysical Survey Systems Inc., and Sensors and Software. They will be able to provide the names of individuals in your area who have the necessary equipment (again you will probably need an independent source to verify their capabilities and expertise).

Predictive modeling for archaeological sites is well beyond my expertise - predictive modeling for locating clandestine grave - our speciality. I have also attached a copy of our (NecroSearch) questionnaire - you may find some of the questions helpful .

Hope this is of use.

Kind Regards
G. Clark Davenport
Forensic Geophysicist
GeoForensics International

----- Original Message -----

From: "Kaleo Patterson" <kpatterson@honolulu.gov>
To: "clark davenport" <geoforensics@comcast.net>
Sent: Friday, May 29, 2009 12:45:44 PM GMT -07:00 US/Canada Mountain
Subject: RE: Hawaiian Burials

Can you add to this, elaborate on the process...

AR00135610

thanks

Kaleo Patterson

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From: clark davenport [mailto:geoforensics@comcast.net]
Sent: Friday, May 29, 2009 5:24 AM
To: Patterson, Kaleo
Subject: Re: Hawaiian Burials

Thank you for your e-mail referencing methods for locating potential burials. I have attached a synopsis of Ground Penetrating Radar (GPR), which we wrote primarily for Law Enforcement. I recommend using GPR in concert with other non-intrusive methods.

In searching for clandestine graves (of murder victims) we focus on selecting potential targets, based on comparative (digital when possible) analysis of historical and new aerial photography (which is problematic in highly vegetative areas), archaeological ground reconnaissance (including botany, pedology and geomorphology). Once potential targets are identified we investigate them with geophysical tools such as GPR, magnetics and/or electromagnetics. Please understand that most of our searches are focused on finding an individual grave, and much of our information comes from folks (suspects or informants) who really don't want to help!

Please realize that GPR will not locate human remains under most conditions. It will locate disturbances in the subsurface. The cause of those disturbances needs to be determined by intrusive methods (probing and/or excavation by archaeologists).

Should the Honolulu High Capacity Transit Corridor Project need assistance, we would be pleased to assist in designing exploration strategies, writing bid documents for geophysical work, selecting qualified contractors, providing oversight, and reviewing any deliverables.

Kind Regards
G. Clark Davenport
Forensic Geophysicist
GeoForensics International
California Registration #44

----- Original Message -----

From: "Kaleo Patterson" <kpatterson@honolulu.gov>
To: geoforensics@comcast.net
Sent: Thursday, May 28, 2009 4:18:45 PM GMT -07:00 US/Canada Mountain
Subject: Hawaiian Burials

Working on big Transit project – 20 miles

Anticipating Hawaiian Burials – want to do good survey and inventory

GPR here new. Want to look at development of GPR and other technologies.

Any information would be appreciated

AR00135611

Kaleo Patterson

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