Alaska Department of Environmental Conservation

Division of Water, Compliance and Enforcement Program
555 Cordova Street
Anchorage, Alaska 99501
Nationwide Toll Free: 1(877) 569-4114 Anchorage/International: (907) 269-4114
Fax: (907) 269-4604 E-mail address: dec-wqreporting@alaska.gov.

NONCOMPLIANCE NOTIFICATION

GENERAL INFORMATION	PERMIT# (if any): AKG003008	
Owner or Operator: City of Akutan	**Facility Name:** Hot Springs Bay Valley Well AK-3	**Facility Location:** Hot Springs Bay on Akutan Island
Person Reporting: Chris Hoffman	**Phone Numbers of Person Reporting:** 907-354-3132	**Reported How? (e.g. by phone):** email
Date/Time Event was Noticed: 20 Aug 2016 2030	**Date/Time Reported:** 28 Aug 2016 2300	**Name of DEC Staff Contacted:** James Rypkema

VERBAL NOTIFICATION MUST BE MADE TO ADEC WITHIN 24 HOURS OF DISCOVERY OF NONCOMPLIANCE

INCIDENT DETAILS (attach additional sheets, lab reports, and photos as necessary)

Period of Noncompliance	Start Date/Time (exact): 20 Aug 2016 2030	End Date/Time (exact): 22 Aug 2016 1500

If noncompliance has not been corrected, provide a statement regarding the anticipated time the noncompliance is expected to continue:

Estimated Quantity involved (volume or weight):
129,600 gallons of hot water

Description of the noncompliance and its cause (be specific):
see attached report

Actions taken to reduce, eliminate, and prevent reoccurrence of noncompliance and Actual/Potential Impact on Environmental Health (describe in detail) (e.g. Supplied drinking water to nearby well owners and informed well owners not to drink from wells until further notice)
see attached report

Permit Condition Deviation (Identify each permit condition exceeded during the event.)

Parameter (e.g. BOD pH)	Permit Limit	Exceedance (sample result)	Sample Date

Corrective Actions (Attach a description of corrective actions taken to restore the system to normal operation and to minimize or eliminate chances of recurrence.)
See attached report

Environmental Damage: (if yes, provide details below) ☐ Yes ☑ No ☐ Unknown

Actual /Potential Impact on Environment/Public Health (describe in detail)
This release could have harmed anadromous fish, but the water entered a reach of the stream that was already heated by geothermal flow and not used by coho and pink salmon that were in the main stem of the unnamed creek. A site investigation did not reveal any impacts to fish or their habitat. See attached report on fish.

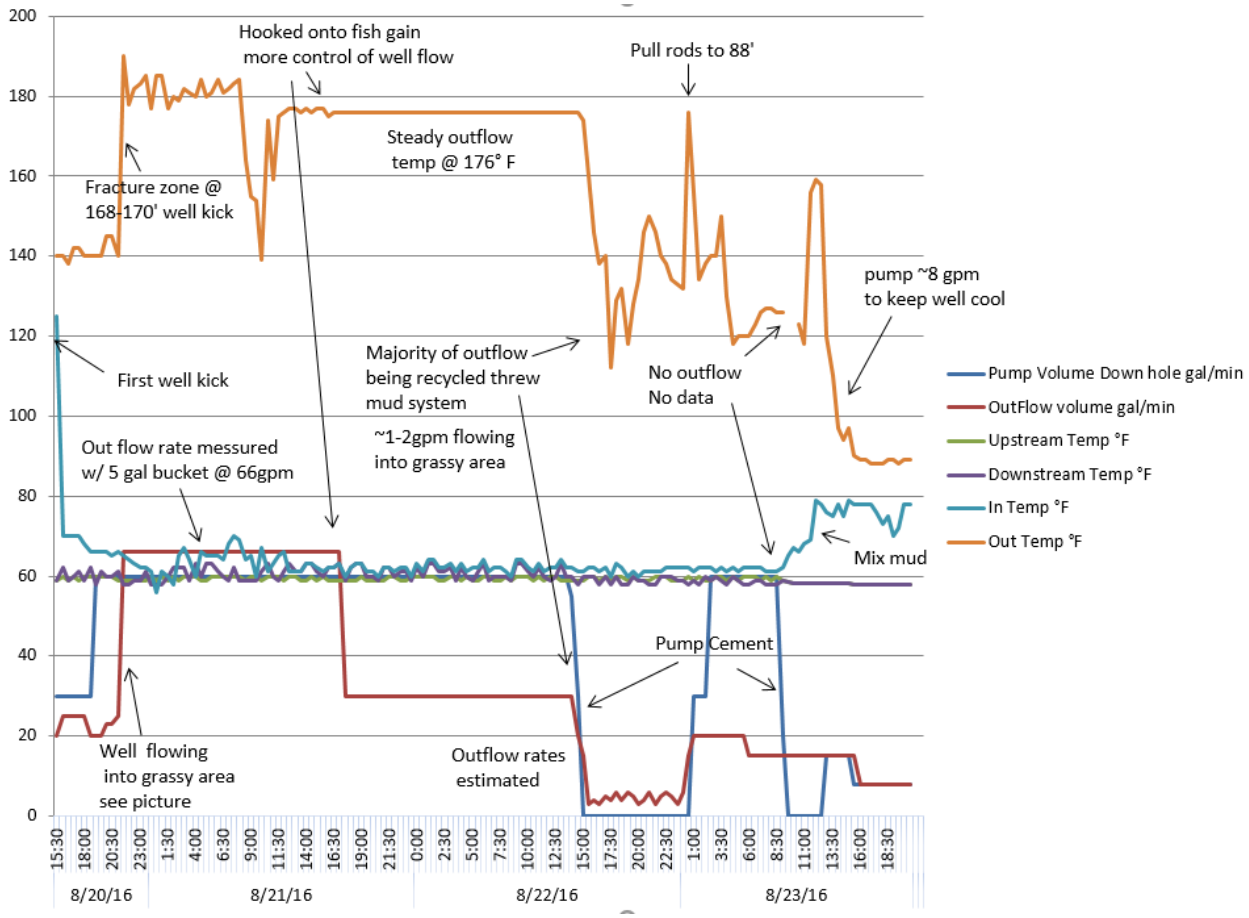
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Chris Hoffman **Title:** Owner, High Tide E **Signature:** Chris Hoffman **Date:** 1 Sep 2016

FORMS MUST BE SENT TO ADEC WITHIN FIVE DAYS OF BECOMING AWARE OF THE EVENT.

Unexpected flow at AK-3

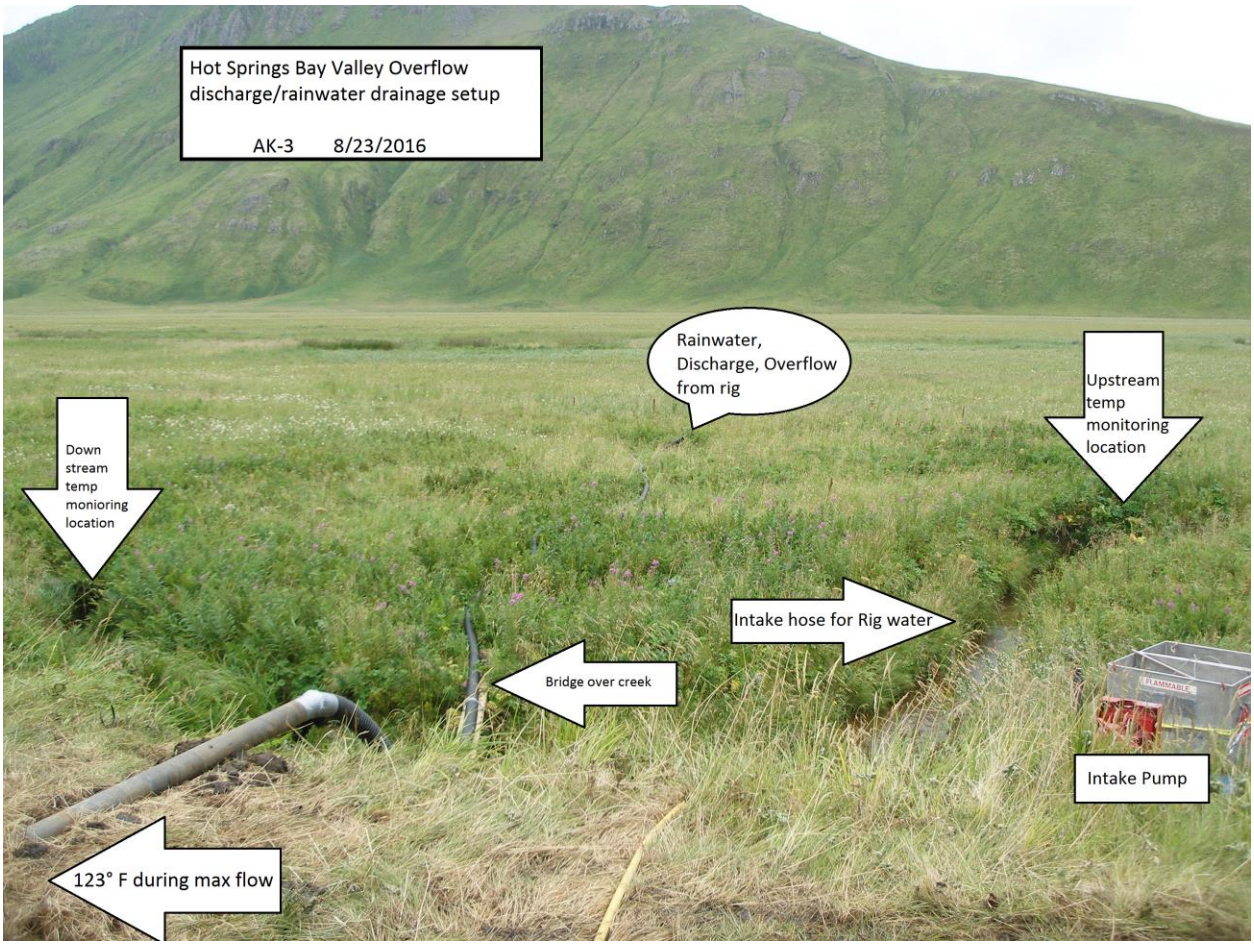
Any flow from AK-3 was expected to be contained in the drilling sup and reserve pit on the site, captured, cooled and allowed to seep into the ground. An unexpected flow zone was encountered in drilling at about 174'. The well began flowing, the drill cuttings and drilling muds were contained, but the sump was not able to drain and filled to capacity. In order to not impact the stream directly the flow was diverted off-site adjacent to the stream and then across the stream to the meadow. Below is a graph of the estimated flow volumes, measured and estimated stream temperatures, well flow temperatures and well inflow temperatures.



The estimated total volume of flow in the time period between 15:00 on 20 August to 20:30 on 23 August is 292,000 gallons, averaging the flow rates over the approximately 72 hours when the well was flowing at 31.5 gpm. The flow that was not contained on the pad or auxiliary sump is about 129,600 gallons. The majority of this was sent through a hose into a grassy area away from the pad on the north side of the stream, then through a hose across the stream at the end at smaller volumes.

Temperatures were taken with a probe at regular intervals in the stream upstream and downstream of the well after the wells flow had to be diverted when the on-site containment became full.

Here are a couple of labeled pictures from the field:


Hot Springs Bay Valley Overflow
discharge/rainwater drainage setup
AK-3 8/23/2016
Rainwater,
Discharge, Overflow
from rig
Upstream
temp
monitoring
location
Down
stream
temp
monioring
location
Intake hose for Rig water
Bridge over creek
Intake Pump
123° F during max flow

Secondary sump currently under constrution. Photo taken end of day on 8/23/16

Mud mixing
and storage
tanks