



THE STATE  
of **ALASKA**  
GOVERNOR BILL WALKER

**Department of Environmental  
Conservation**

DIVISION OF SPILL PREVENTION AND RESPONSE  
Contaminated Sites Program

610 University Ave.  
Fairbanks, Alaska 99709-3643  
Main: 907.451.2180  
Fax: 907.451.5105

File: 860.38.019

May 12, 2015

AL Weilbacher  
AFCEC/CIBE  
2261 Hughes Ave., Suite 155  
JBSA Lackland, TX 78236-9853

Re: DEC Non-Qualifying site determination, area "K" of POL Tank Farm (Site ST005), Former Galena Forward Operating Location (FOL), Alaska.

Dear Mr. Weilbacher:

The Alaska Department of Environmental Conservation (DEC) has completed a review of the Final Supplemental Site Characterization (SC) results report for POL Tank Farm (Site ST005). The objective of the supplemental SC effort was to further evaluate the nature and extent of contamination at Site ST005/CB001 previously reported in the "*Site Characterization Results Report POL Tank Farm (Site ST005) and Galena Aviation Vocational Technical Center (Site CB001), Former Galena Forward Operating Location, Alaska (SC report) (CH2M HILL, September 2013a)*". The supplemental SC investigation was conducted in accordance with the approved "*Final Work Plan for Site Inspection, Remedial Investigation, and Site Characterization Former Galena Forward Operating Location, Alaska (Work Plan) (CH2M HILL, May 2013) and Final 2013 Supplemental Site Characterization Sampling Plan Former Galena Forward Operating Location, Alaska (Supplemental Work Plan) (CH2M HILL, July 2013a)*". The work plans and reporting for site ST005 have been reviewed by DEC and meet the requirements for Site Characterization under 18 AAC 75.335.

Due to the large area of investigation, Site ST005 was broken into twelve sub areas/potential source areas. These potential source areas consist of former ASTs, fill stations, pump stations, and valve pits. In the field sampling plan for site ST005, each potential source area had been identified as a location for investigation. Each area was assigned a letter designation ("A" through "L").

Area K is located in the southwest portion of the POL Tank Farm, approximately 50 feet southeast of site OSW 1833. Area K is the location of a fill station consisting of fill dispensing stands and two above ground storage tanks (ASTs), Nos. 1881-1 and 1881-2. AST 1881-1 is a 15,000-gallon tank used for diesel fuel storage, and AST 1881-2 is a 30,000-gallon tank used for unleaded MOGAS. The fill station has been operational since 1996, and is currently active. The tanks are double walled and meet all spill prevention requirements. Each tank is equipped with a level and leak detection

system. Analytical results for soil samples collected in Area K show that target analyte concentrations are below the project screening levels for all analytes. Since a release was not indicated by soil sample results, groundwater samples were not collected. A cumulative risk evaluation of detected analytes concluded that there is no cumulative cancer risk or cumulative noncancer hazard index for unrestricted land use because there were no identified COPCs in soil in Area K. The SC results report and the Supplemental SC report recommended a non-qualifying site designation for Area K.

DEC concurs with the SC report and concludes that the detected concentrations do not pose unacceptable risk. Therefore, the ST005 Area "K" is determined to be non-qualifying and no further investigation is required within this area of Site ST005. DEC will document this decision in the Contaminated Site Database Actions for Galena AFS/Airport - ST005 POL Tank Farm, File Number 860.38.019. Site ST005 will remain open on the Contaminated Site Database until all twelve subareas within the site have been cleaned up or are determined by DEC to be non-qualifying.

If you have any questions, please do not hesitate to contact me at (907) 451-2180, or by email at [dennis.shepard@alaska.gov](mailto:dennis.shepard@alaska.gov).

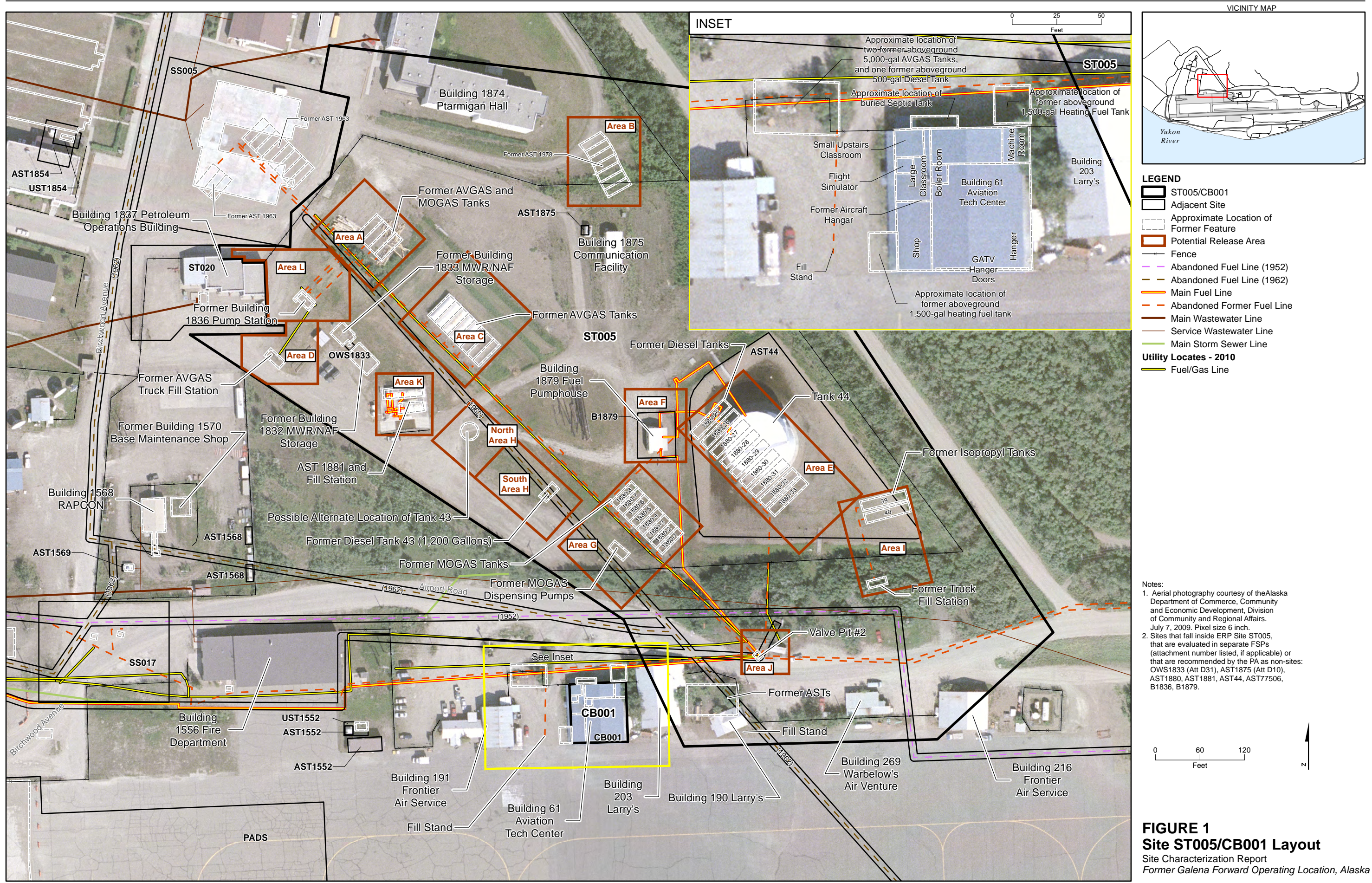
Sincerely,



Dennis Shepard  
Environmental Program Specialist

Enclosure: Area K Site layout\_detections

cc: Donna Kozak, Booz Allen Hamilton, via email  
Angela Sederquist, Booz Allen Hamilton, via email  
Bruce Henry, Parsons, via email  
Ed Heyse, Parsons, via email  
Jason Bidgood, Parsons, via email  
Win Westervelt, CH2MHill, via email  
Andi Lord, CH2MHill, via email  
Penny Adler, ADOT&PF, via email  
Margaret Moody, ADOT&PF, via email  
Sam Myers, ADOT&PF, via email



**FIGURE 1**  
**Site ST005/CB001 Layout**  
 Site Characterization Report  
 Former Galena Forward Operating Location, Alaska

TABLE 75

Chemicals Detected in Site Investigation Soil Samples: Site ST005, Area K

Analyte	Location Sample ID Sample Depth (feet) Sample Date Screening Level	ST005_GP035			ST005_GP036		ST005_GP037		ST005_GP038		ST005_GP039	
		ST005GP035SO_00-02	ST005GP935SO_00-02 - FD	ST005GP035SO_04-06	ST005GP036SO_00-02	ST005GP036SO_04-06	ST005GP037SO_00-02	ST005GP037SO_04-06	ST005GP038SO_00-02	ST005GP038SO_04-06	ST005GP039SO_00-02	ST005GP039SO_04-06
		0 - 2	0 - 2	4 - 6	0 - 2	4 - 6	0 - 2	4 - 6	0 - 2	4 - 6	0 - 2	4 - 6
		9/23/2011	9/23/2011	9/23/2011	9/23/2011	9/23/2011	9/23/2011	9/23/2011	9/23/2011	9/23/2011	9/26/2011	9/26/2011
<b>Hydrocarbons-C6-C10 GRO (mg/kg)</b>												
C6-C10 GRO	140	1.43 B	2.71 B	2.03 B	1.25 B	1.34 B	1.31 B	1.72 B	1.08 B	1.59 B	3.42 B	2.55 B
<b>Hydrocarbons-C10-C25 DRO (mg/kg)</b>												
C10-C25 DRO	250	21.9	19.1	11.1 J	3.93 J	3.17 U	11.7	9.16 J	3.32 J	9.65 J	92.4	16.6
<b>Hydrocarbons-C25-C36 RRO (mg/kg)</b>												
C25-C36 RRO	1000	37.4 J	33.2 J	58.3 J	17.3 J	12.8 J	45.7 J	43.4 J	14.6 J	43.7 J	311	151
<b>Hydrocarbons (mg/kg)</b>												
C10-C12 Aliphatic	--	NA	NA	NA	NA	4.76 J	NA	NA	NA	NA	NA	NA
C10-C12 Aromatic	--	NA	NA	NA	NA	6.21	NA	NA	NA	NA	NA	NA
C12-C13 Aromatic	--	NA	NA	NA	NA	12.7	NA	NA	NA	NA	NA	NA
C21-C34 Aliphatic	--	NA	NA	NA	NA	3.3 J	NA	NA	NA	NA	NA	NA
C21-C34 Aromatic	--	NA	NA	NA	NA	4.76 J	NA	NA	NA	NA	NA	NA
C5-C6 Aliphatic	--	NA	NA	NA	NA	0.946 B	NA	NA	NA	NA	NA	NA
C6-C8 Aliphatic	--	NA	NA	NA	NA	3.95 J	NA	NA	NA	NA	NA	NA
C8-C10 Aliphatic	--	NA	NA	NA	NA	1.3 J	NA	NA	NA	NA	NA	NA
C8-C10 Aromatic	--	NA	NA	NA	NA	3.14 J	NA	NA	NA	NA	NA	NA
<b>Metals (mg/kg)</b>												
Lead	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	23.3	7.43
<b>SVOCs (mg/kg)</b>												
1-Methylnaphthalene	6.2	NA	NA	NA	NA	0.000648 J	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	6.1	NA	NA	NA	NA	0.00107 J	NA	NA	NA	NA	NA	NA
<b>VOCs (mg/kg)</b>												
Naphthalene	2.8	NA	NA	NA	NA	0.000664 B	NA	NA	NA	NA	NA	NA
Toluene	6.5	0.0012 U	0.0017 U	0.0015 U	0.0011 U	0.0012 U	0.001 U	0.0014 U	0.001 U	0.0016 U	0.0015 U	0.0175 J

Notes:

-- = No screening level identified

B = The analyte was detected in the associated method and/or calibration blank.

CUL = Cleanup Level

DRO = Diesel Range Organics

FD = Field Duplicate

GRO = Gasoline Range Organics

J = The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.

mg/kg = Milligrams per Kilogram

NA = Not analyzed

ND = Not detected

PCBs = Polychlorinated Biphenyls

RRO = Residual Range Organics

SVOCs = Semivolatile Organic Compounds

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

VOCs = Volatile Organic Compounds

**Bold indicates the analyte was detected**

Shading indicates the result exceeded screening criteria

*Italics and heavy outline indicates non-detect MDL is more than 10 times the screening criteria*

Screening Criteria:

Work Plan, Appendix C, Table C-3, Extent SLs for Soil

5/1/2013 16:10

TABLE 76

**Cumulative Risk Evaluation: Site ST005\_Area K**

<b>Soil</b>				
<b>CAS Number</b>	<b>Analyte</b>	<b>Maximum Detect (mg/L)</b>	<b>One-tenth ADEC Table B-1</b>	<b>COPC Yes/No</b>
90-12-0	1-Methylnaphthalene	0.00065	28	No
91-57-6	2-Methylnaphthalene	0.0011	28	No
DIESELCOMP	C10-C25 DRO	92.4	--	No
MOIL	C25-C36 RRO	311	--	No
7439-92-1	Lead	23.3	40	No
108-88-3	Toluene	0.018	22	No

**Cumulative Multi-Media Risk and Hazard Estimates****Including all COPCs**

<b>Cumulative Cancer Risk</b>	NA
<b>Cumulative Noncancer Hazard Index</b>	NA

**Notes:**

ADEC = Alaska Department of Environmental Conservation

COPC = constituent of potential concern for inclusion in cumulative risk evaluation

mg/kg = milligram per kilogram

NA = no COPCs identified