THE STATE of ALASKA
GOVERNOR BILL WALKER

Department of Environmental Conservation

DIVISION OF SPILL PREVENTION AND RESPONSE
Contaminated Sites Program

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File: 860.38.019

June 5, 2015

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

Re: DEC Non-Qualifying site determination, area "North H" 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 North H is located in the central portion of the POL Tank Farm, approximately 350 feet west of Tank 44. Historic aerial photographs showed objects that are interpreted to be above ground storage tanks. Visual inspection did not identify soil contamination. Analytical results for soil samples collected in Area North H (Boring ST005_GP031) show that that target analyte concentrations are below the project screening levels for all analytes (see enclosed Area North H

Site layout-detections) with the exception of Blank "B" qualified results for Methylene Chloride which is believed to be laboratory related. Since no release was identified at Area North H, groundwater samples were not collected at ST005_GP031. The Supplemental SC report recommended a non-qualifying site designation for Area North H.

DEC concurs with the Supplemental SC report and concludes that Area North H detected concentrations do not pose unacceptable risk and are not contributing to groundwater contamination. Therefore, the ST005 Area "North H" 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.

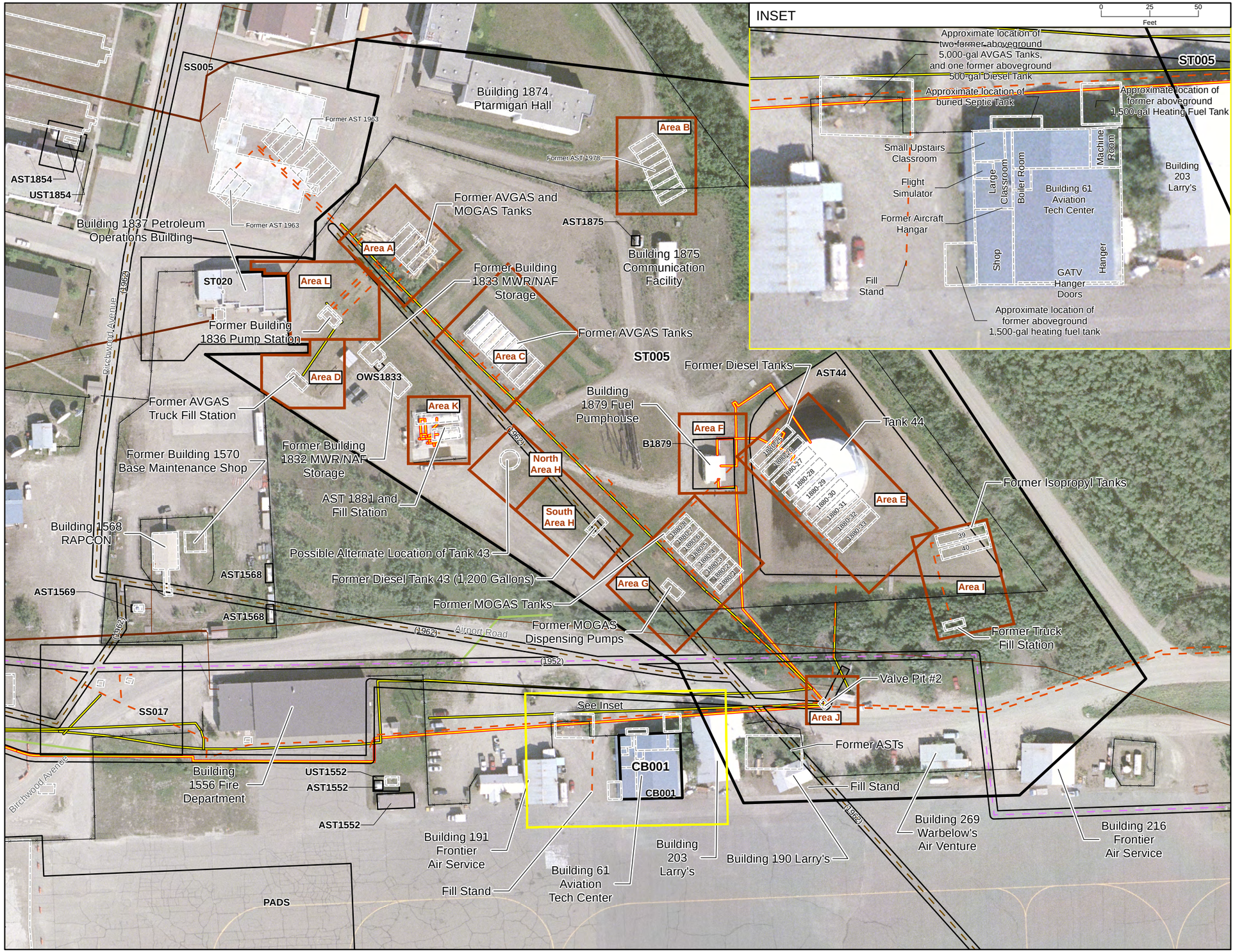
If you have any questions, please do not hesitate to contact me at (907) 451-2180, or by email at dennis.shepard@alaska.gov.

Sincerely,

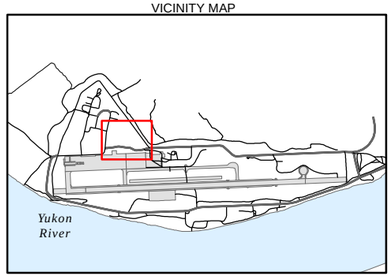
Dennis Shepard
Environmental Program Specialist

Enclosure: Area North H 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



VICINITY MAP



LEGEND

- ST005/CB001
- Adjacent Site
- Approximate Location of Former Feature
- Potential Release Area
- Fence
- Abandoned Fuel Line (1952)
- Abandoned Fuel Line (1962)
- Main Fuel Line
- Abandoned Former Fuel Line
- Main Wastewater Line
- Service Wastewater Line
- Main Storm Sewer Line

Utility Locates - 2010

- Fuel/Gas Line

Notes:

1. Aerial photography courtesy of theAlaska Department of Commerce, Community and Economic Development, Division of Community and Regional Affairs. July 7, 2009. Pixel size 6 inch.
2. Sites that fall inside ERP Site ST005, that are evaluated in separate FSPs (attachment number listed, if applicable) or that are recommended by the PA as non-sites: OWS1833 (Att D31), AST1875 (Att D10), AST1880, AST1881, AST44, AST77506, B1836, B1879.

0 60 120
Feet

N

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

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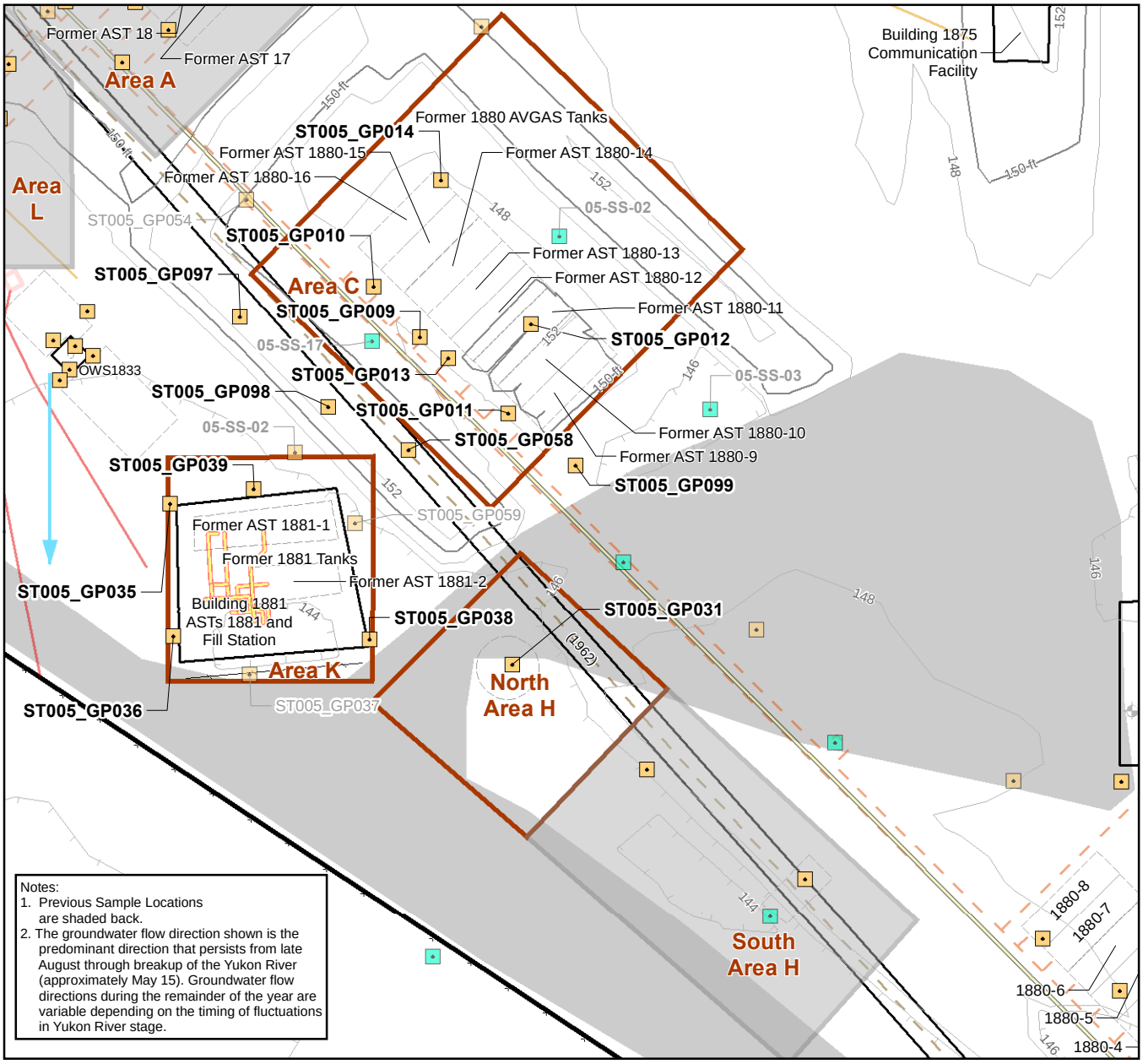


LEGEND

- ST005
- Adjacent Site
- Potential Release Area
- Airfield or Road
- Structure
- Approximate Location of Former Feature
- Fence
- Approximate Groundwater Flow Direction
- Soil Boring
- Surface Soil Sample

Contour Interval = 2 Feet

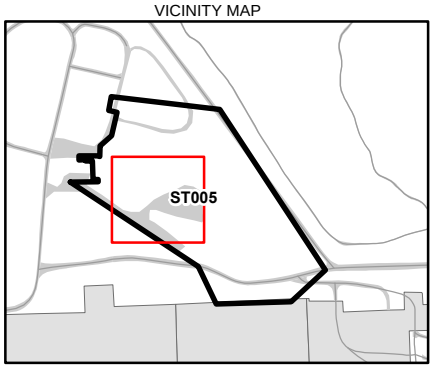
- Index Contour
- Intermediate Contour Depression
- Intermediate Contour

- Main Fuel Line
- Abandoned Fuel Line (1962)
- Abandoned Former Fuel Line

Underground Utility Locates – 2010

- Electrical Line
- Communications Line
- Fuel/Gas Line

VICINITY MAP



N

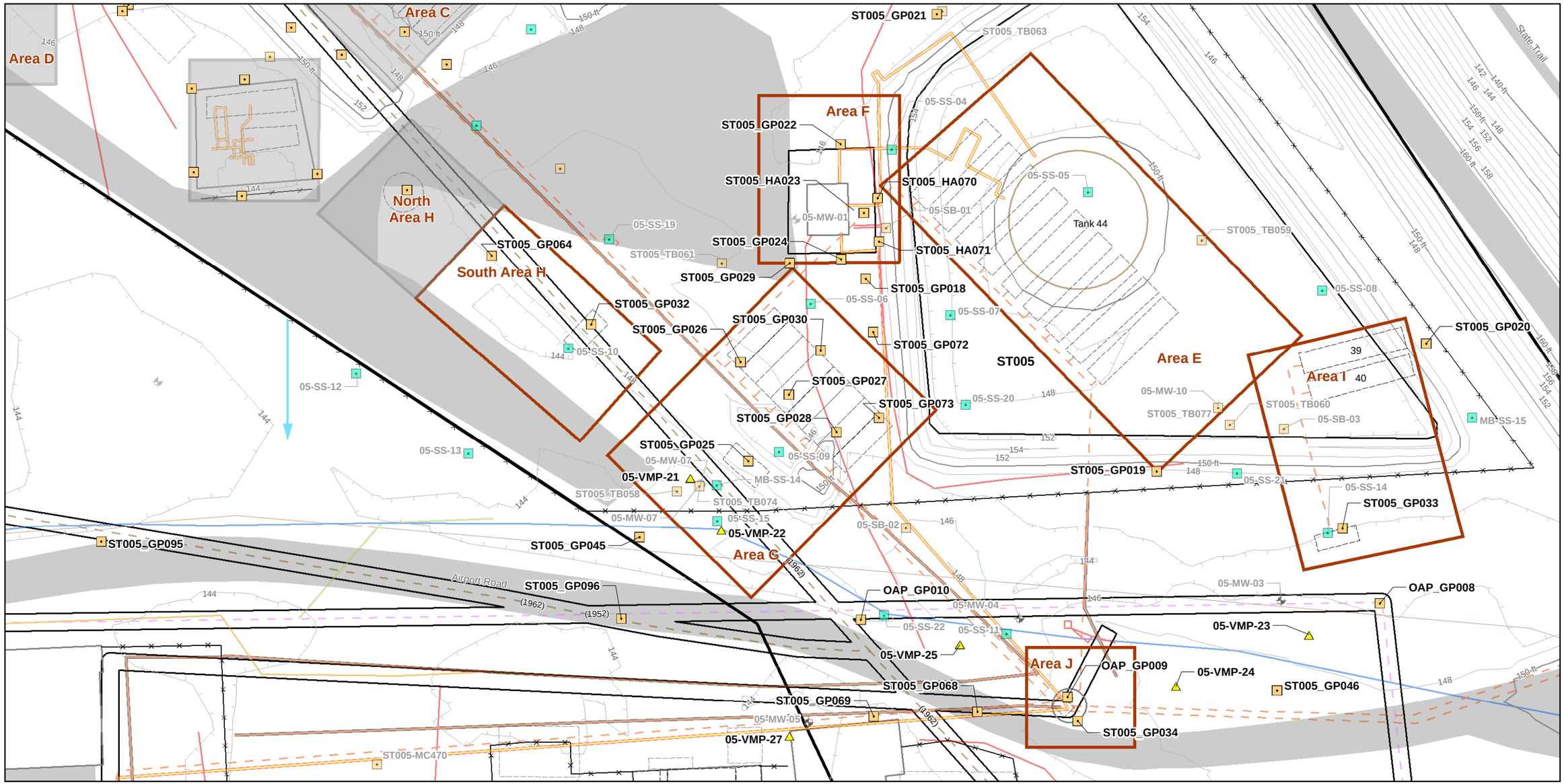
0 30 60

Feet

FIGURE 7
Site ST005/CB001 Previous and Site Characterization Soil Sample Locations Areas C, North H, and K

Site Characterization Report

Former Galena Forward Operating Location, Alaska



LEGEND

- ST005
- Adjacent Site
- Potential Release Area
- Structure
- Approximate Location of Former Feature
- Airfield Surface or Road
- Fuel Tank
- Fence
- Approximate Groundwater Flow Direction
- Soil Boring
- Bioventing System Well
- Surface Soil Sample
- Vapor Monitoring Point
- Abandoned Monitoring Well
- Abandoned Fuel Line (1952)
- Abandoned Fuel Line (1962)
- Fuel Line
- Abandoned Former Fuel Line
- Service Wastewater Line
- Main Storm Sewer Line

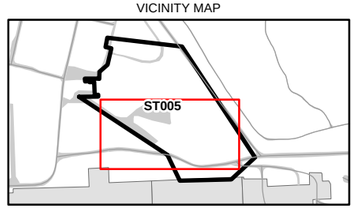
Contour Interval = 2 Feet

- Index Contour
- Intermediate Contour Depression
- Intermediate Contour

Below Ground Utility Locates - 2010

- Electrical Line
- Communications Line
- Potable Water Main
- Fuel/Gas Line
- Electrical Transformer

VICINITY MAP

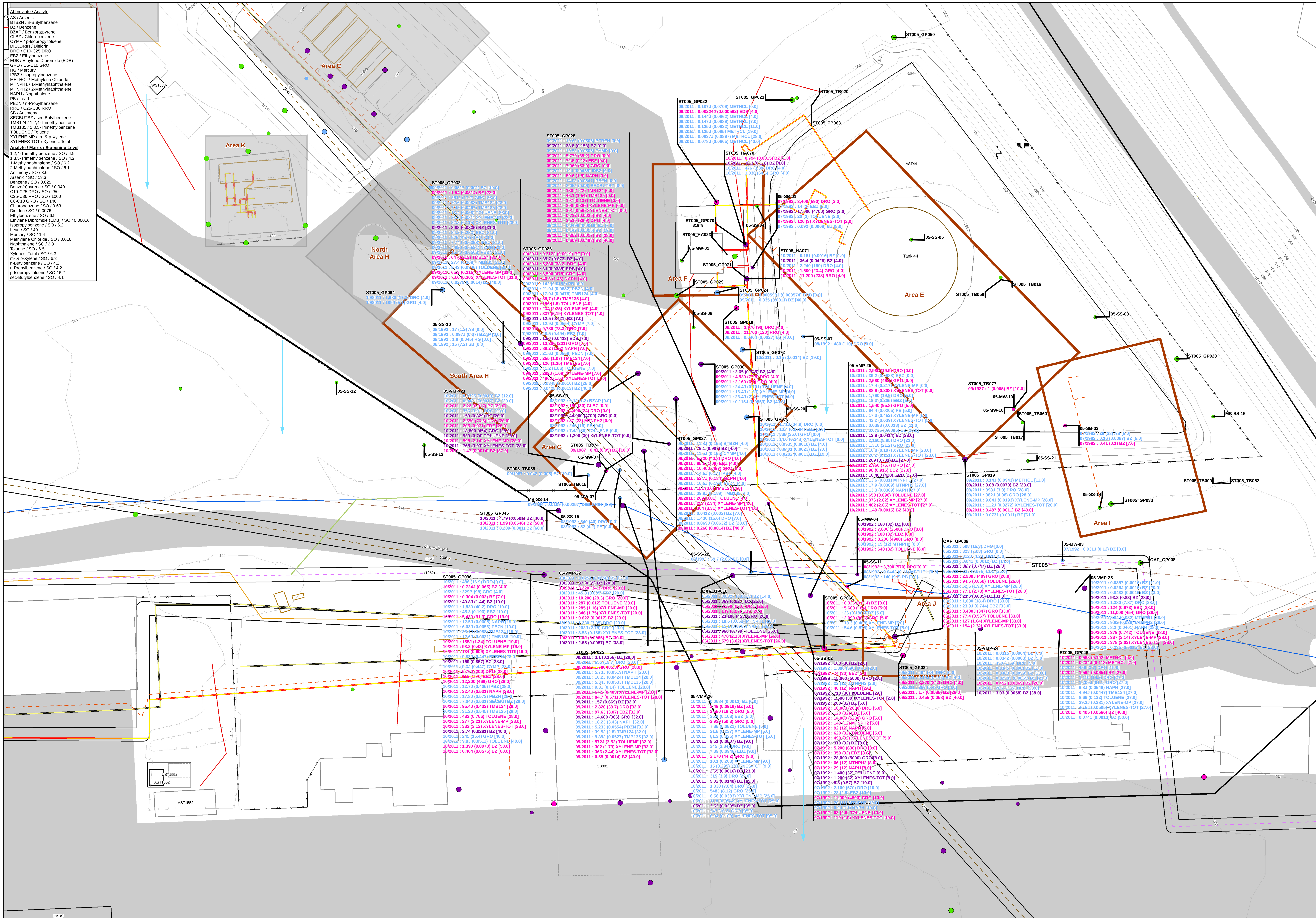


0 30 60
Feet

N

Notes:
1. Previous Sample Locations are shaded back.
2. The groundwater flow direction shown is the predominant direction that persists from late August through breakup of the Yukon River (approximately May 15). Groundwater flow directions during the remainder of the year are variable depending on the timing of fluctuations in Yukon River stage.

FIGURE 8
Site ST005/CB001 Previous and Site Characterization Soil Sample Locations Areas E, F, G, South H, I, and J
Site Characterization Report
Former Galena Forward Operating Location, Alaska



VICINITY MAP

Yukon River

LEGEND

- ST005/CB001
- Adjacent Site
- Potential Release Area
- Structure
- Approximate Location of Former Feature
- Airfield Surface or Road
- Fuel Tank
- Fence
- Approximate Groundwater Flow Direction
- Main Storm Sewer Line
- Abandoned Fuel Line (1952)
- Abandoned Fuel Line (1962)
- Main Fuel Line
- Abandoned Former Fuel Line
- Service Wastewater Line

Underground Utility Locates - 2010

- Electrical Line
- Storm Drain
- Communications Line
- Sanitary Sewer Main
- Potable Water Main
- Fuel/Gas Line
- Concrete Pad
- Electrical Transformer
- Utility Vault

Contour Interval = 2 Feet

- Index Contour
- Intermediate Contour Depression
- Intermediate Contour
- 2010/2011 Sample Exceeds Screening Level (Greater than 100X analyte SL)
- 2010/2011 Sample Exceeds Screening Level (Greater than 10X analyte SL)
- 2010/2011 Sample Exceeds Screening Level (1 to 10X analyte SL)
- 2010/2011 Sample Does Not Exceed Screening Level
- Previous Sample Exceeds Screening Level (Greater than 100X analyte SL)
- Previous Sample Exceeds Screening Level (Greater than 10X analyte SL)
- Previous Sample Exceeds Screening Level (1 to 10X analyte SL)
- Previous Sample Does Not Exceed Screening Level

Notes:
1. B - The analyte was detected in the associated method and/or calibration blank.
   J - The analyte was positively identified: the associated numerical value is the approximate concentration of the analyte in the sample.
2. Only exceedences shown.
3. Screening levels are presented in units of mg/kg for SO (soil) samples.
4. **Purple Label** = Sample Exceeds Screening Level (Greater than 100X analyte SL)
5. **Scarlet Label** = Sample Exceeds Screening Level (Greater than 10X analyte SL)
6. **Blue Label** = Sample Exceeds Screening Level (1 to 10X analyte SL)
7. SL = Screening Level
8. Depth shown is the TOP depth of the sample.
9. 2010 utilities shown are underground only.
10. The groundwater flow direction shown is the predominant direction that persists from late August through breakup of the Yukon River (approximately May 15). Groundwater flow directions during the remainder of the year are variable depending on the timing of fluctuations in Yukon River stage.

Location ID — 01-SS-01
Sample Month/Year — 02/2009 : 0.028J (0.25) ACNP [5.0]
Solids Concentration (mg/kg)
Data Qualifier
Sample Quantitation Limit (mg/kg)
Analyte Abbreviate
Depth (Feet BGS)

0 25 50
Feet

N

FIGURE 38
Site ST005/CB001 Screening Level Exceedances in Soil - Areas E, F, G, South H, I, and J
Site Characterization Report
Former Galena Forward Operating Location, Alaska

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V:\GALENATO184_394439\MAPFILES\SC_REPORT\ST005\FIG38_ST005_ALLYEARS_SC_SO_EXCEEDS_AREAS_EFGHIJ_DSIZE.MXD CVONFREE 9/23/2013 10:41:09 AM

FIGURE 43
Site ST005/CB001 Screening Level Exceedances in Groundwater - Areas E, F, G, South H, I, and J
Site Characterization Report
Former Galena Forward Operating Location, Alaska

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\\BALDUR\PROJ\GALENATO184_394439\MAPFILES\TRIAD\ST009\ST009_SO_VOCS_JULY2010_DSIZE.MXD SEARLY 8/2/2010 09:44:11

TABLE 66

Site Characterization Soil Sample Information: Site ST005, Area North H

							Analytical Methods				
Location Name	Sample Name	Sample Type	Sample Date	Sample Beginning Depth (ft)	Sample Ending Depth (ft)	Rationale from FSP	AK102/3 (DRO/RRO)	M8260B (VOCs)	MXVTPH (AK101/SW8021B) (GRO and BTEX)	SW6020 (Metals)	SW8260B (VOCs)
Soil 2010 and 2011											
ST005_GP031	ST005GP031SO_00-02	N	21-Sep-11	0	2	Evaluate the nature and extent of soil contamination in Area H	X	X	X	X	X
ST005_GP031	ST005GP031SO_04-06	N	21-Sep-11	4	6	Evaluate the nature and extent of soil contamination in Area H	X	X	X	X	X
ST005_GP031	ST005GP031SO_07-09	N	22-Sep-11	7	9	Evaluate the nature and extent of soil contamination in Area H	X	X	X	X	X
ST005_GP031	ST005GP031SO_11-13	N	22-Sep-11	11	13	Evaluate the nature and extent of soil contamination in Area H	X	X	X	X	X
ST005_GP031	ST005GP031SO_19-21	N	22-Sep-11	19	21	Evaluate the nature and extent of soil contamination in Area H	X	X	X	X	X
ST005_GP031	ST005GP031SO_28-30	N	22-Sep-11	28	30	Evaluate the nature and extent of soil contamination in Area H	X	X	X	X	X
ST005_GP031	ST005GP031SO_40-42	N	22-Sep-11	40	42	Evaluate the nature and extent of soil contamination in Area H	X	X	X	X	X

Notes:

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = diesel-range organic

FD = field sample duplicate

GRO = gasoline-range organic

N = field parent sample

RRO = residual-range organic

VOC = volatile organic compound

TABLE 67

TCE and PCE Screening Results in Site Characterization Soil Samples: Site ST005, Area North H

	Location	ST005_GP031						
	Sample ID	ST005GP031SO_00-02	ST005GP031SO_04-06	ST005GP031SO_07-09	ST005GP031SO_11-13	ST005GP031SO_19-21	ST005GP031SO_28-30	ST005GP031SO_40-42
	Sample Depth (feet)	0 - 2	4 - 6	7 - 9	11 - 13	19 - 21	28 - 30	40 - 42
	Sample Date	9/21/2011	9/21/2011	9/22/2011	9/22/2011	9/22/2011	9/22/2011	9/22/2011
Analyte	**Screening Level**							
VOCs (mg/kg)								
Tetrachloroethene (PCE)	0.024	0 US	0 US	0 US	0 US	0 US	0 US	0 US
Trichloroethene (TCE)	0.02	0 US	0 US	0 US	0 US	0 US	0 US	0 US

Notes:

ft = feet

ID = identification number

mg/kg = milligrams per kilogram

NA = not analyzed

US = The analyte was not detected; however, the result is a screening result.

VOC = volatile organic compound

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 15:55

TABLE 68

Summary Statistics for Site Characterization Soil Samples 2010 and 2011: Site ST005, Area North H

Analyte	Units	Number of Detects	Number of Samples	Number of rejected Samples	Frequency of Detection	Minimum Nondetect Value	Maximum Nondetect Value	Minimum Detected Value	Maximum Detected Value	Screening Level	Number of Detects > Screening Level	Number of Nondetects > Screening Level
1,1,1,2-Tetrachloroethane	mg/kg	--	7	0	0%	0.000555	0.00125	--	--	1.9	--	--
1,1,1-Trichloroethane	mg/kg	--	7	0	0%	0.000515	0.00116	--	--	0.82	--	--
1,1,2,2-Tetrachloroethane	mg/kg	--	7	0	0%	0.000604	0.00137	--	--	0.017	--	--
1,1,2-Trichloroethane	mg/kg	--	7	0	0%	0.000872	0.00197	--	--	0.018	--	--
1,1-Dichloroethane	mg/kg	--	7	0	0%	0.000208	0.00047	--	--	25	--	--
1,1-Dichloroethene	mg/kg	--	7	0	0%	0.000585	0.00132	--	--	0.03	--	--
1,1-Dichloropropene	mg/kg	--	7	0	0%	0.000535	0.00121	--	--	0.033	--	--
1,2,3-Trichlorobenzene	mg/kg	--	7	0	0%	0.000743	0.00168	--	--	4.9	--	--
1,2,3-Trichloropropane	mg/kg	--	7	0	0%	0.000803	0.00181	--	--	0.00053	--	7
1,2,4-Trichlorobenzene	mg/kg	--	7	0	0%	0.000723	0.00164	--	--	0.85	--	--
1,2,4-Trimethylbenzene	mg/kg	3	7	0	43%	0.000575	0.0013	0.00157	0.0606	4.9	--	--
1,2-Dibromo-3-Chloropropane	mg/kg	--	7	0	0%	0.000595	0.00134	--	--	0.0054	--	--
1,2-Dichlorobenzene	mg/kg	--	7	0	0%	0.000446	0.00101	--	--	4.5	--	--
1,2-Dichloroethane	mg/kg	--	7	0	0%	0.000694	0.00157	--	--	0.016	--	--
1,2-Dichloropropane	mg/kg	--	7	0	0%	0.000545	0.00123	--	--	0.018	--	--
1,3,5-Trimethylbenzene	mg/kg	4	7	0	57%	0.000565	0.00128	0.00103	0.11	4.2	--	--
1,3-Dichlorobenzene	mg/kg	--	7	0	0%	0.000476	0.00108	--	--	6.9	--	--
1,3-Dichloropropane	mg/kg	--	7	0	0%	0.000505	0.00114	--	--	160	--	--
1,4-Dichlorobenzene	mg/kg	--	7	0	0%	0.000773	0.00175	--	--	0.64	--	--
2,2-Dichloropropane	mg/kg	--	7	0	0%	0.000436	0.000986	--	--	0.018	--	--
2-Butanone (MEK)	mg/kg	7	7	0	100%	--	--	0.0028	0.0133	59	--	--
2-Chlorotoluene	mg/kg	--	7	0	0%	0.000505	0.00114	--	--	160	--	--
2-Hexanone	mg/kg	--	7	0	0%	0.00485	0.011	--	--	21	--	--
4-Chlorotoluene	mg/kg	--	7	0	0%	0.000773	0.00175	--	--	550	--	--
4-Methyl-2-Pentanone (MIBK)	mg/kg	--	7	0	0%	0.00432	0.00977	--	--	8.1	--	--
Acetone	mg/kg	7	7	0	100%	--	--	0.0274	0.961	88	--	--
Benzene	mg/kg	6	7	0	86%	0.000466	0.000466	0.0015	0.0117	0.025	--	--
Bromobenzene	mg/kg	--	7	0	0%	0.000486	0.0011	--	--	30	--	--
Bromochloromethane	mg/kg	--	7	0	0%	0.000297	0.000672	--	--	0.044	--	--
Bromodichloromethane	mg/kg	--	7	0	0%	0.000218	0.000493	--	--	0.044	--	--
Bromoform	mg/kg	--	7	0	0%	0.000228	0.000515	--	--	0.34	--	--
Bromomethane	mg/kg	--	7	0	0%	0.000495	0.00112	--	--	0.16	--	--
C10-C25 DRO	mg/kg	5	7	0	71%	3.43	3.79	5.93	15.8	250	--	--
C25-C36 RRO	mg/kg	7	7	0	100%	--	--	8.3	77.3	1,000	--	--
C6-C10 GRO	mg/kg	7	7	0	100%	--	--	0.32	3.71	140	--	--
Carbon Disulfide	mg/kg	5	7	0	71%	0.000455	0.000657	0.000602	0.00157	12	--	--
Carbon Tetrachloride	mg/kg	--	7	0	0%	0.000624	0.00141	--	--	0.023	--	--
Chlorobenzene	mg/kg	--	7	0	0%	0.000535	0.00121	--	--	0.63	--	--
Chloroethane	mg/kg	--	7	0	0%	0.000882	0.00199	--	--	2.3	--	--
Chloroform	mg/kg	2	7	0	29%	0.000287	0.000517	0.000495	0.00399	0.32	--	--
Chloromethane	mg/kg	--	7	0	0%	0.000763	0.00173	--	--	0.21	--	--
cis-1,2-Dichloroethene	mg/kg	--	7	0	0%	0.000555	0.00125	--	--	0.24	--	--
cis-1,3-Dichloropropene	mg/kg	--	7	0	0%	0.00128	0.00289	--	--	0.033	--	--
Dibromochloromethane	mg/kg	--	7	0	0%	0.000565	0.00128	--	--	0.032	--	--

TABLE 68

Summary Statistics for Site Characterization Soil Samples 2010 and 2011: Site ST005, Area North H

Analyte	Units	Number of Detects	Number of Samples	Number of rejected Samples	Frequency of Detection	Minimum Nondetect Value	Maximum Nondetect Value	Minimum Detected Value	Maximum Detected Value	Screening Level	Number of Detects > Screening Level	Number of Nondetects > Screening Level
Dibromomethane	mg/kg	--	7	0	0%	0.000832	0.00188	--	--	1.1	--	--
Dichlorodifluoromethane	mg/kg	--	7	0	0%	0.000515	0.00116	--	--	38	--	--
Ethylbenzene	mg/kg	1	7	0	14%	0.000664	0.0015	0.00124	0.00124	6.9	--	--
Ethylene Dibromide (EDB)	mg/kg	--	7	0	0%	0.000515	0.00116	--	--	0.00016	--	7
Hexachlorobutadiene	mg/kg	--	7	0	0%	0.000545	0.00123	--	--	0.12	--	--
Isopropylbenzene	mg/kg	--	7	0	0%	0.000585	0.00132	--	--	6.2	--	--
Lead	mg/kg	7	7	0	100%	--	--	2.48	9.42	40	--	--
m- & p-Xylene	mg/kg	6	7	0	86%	0.00103	0.00103	0.0154	0.0728	6.3	--	--
Methyl tert-Butyl Ether (MTBE)	mg/kg	--	7	0	0%	0.000337	0.000762	--	--	1.3	--	--
Methylene Chloride	mg/kg	7	7	0	100%	--	--	0.189	0.287	0.016	7	--
Naphthalene	mg/kg	--	7	0	0%	0.000624	0.00141	--	--	2.8	--	--
n-Butylbenzene	mg/kg	--	7	0	0%	0.000555	0.00125	--	--	4.2	--	--
n-Propylbenzene	mg/kg	--	7	0	0%	0.000575	0.0013	--	--	4.2	--	--
o-Xylene	mg/kg	5	7	0	71%	0.000604	0.00137	0.00174	0.0301	380	--	--
p-Isopropyltoluene	mg/kg	--	7	0	0%	0.000486	0.0011	--	--	6.2	--	--
sec-Butyl Alcohol	mg/kg	--	7	0	0%	0.0297	0.0672	--	--	16,000	--	--
sec-Butylbenzene	mg/kg	--	7	0	0%	0.000763	0.00173	--	--	4.1	--	--
Styrene	mg/kg	--	7	0	0%	0.000624	0.00141	--	--	0.96	--	--
tert-Butylbenzene	mg/kg	--	7	0	0%	0.000495	0.00112	--	--	7	--	--
Tetrachloroethene (PCE)	mg/kg	--	7	0	0%	0.000585	0.00132	--	--	0.024	--	--
Toluene	mg/kg	6	7	0	86%	0.000684	0.000684	0.00674	0.0244	6.5	--	--
trans-1,2-Dichloroethene	mg/kg	--	7	0	0%	0.000386	0.000874	--	--	0.37	--	--
trans-1,3-Dichloropropene	mg/kg	--	7	0	0%	0.000664	0.0015	--	--	0.033	--	--
Trichloroethene (TCE)	mg/kg	--	7	0	0%	0.000228	0.000515	--	--	0.02	--	--
Trichlorofluoromethane	mg/kg	--	7	0	0%	0.00103	0.00233	--	--	86	--	--
Vinyl Chloride	mg/kg	--	7	0	0%	0.00133	0.003	--	--	0.0085	--	--
Xylenes, Total	mg/kg	6	7	0	86%	0.000991	0.000991	0.0154	0.1	6.3	--	--

Notes:

DRO = diesel-range organic

GRO = gasoline-range organic

RRO = residual-range organic

mg/kg = milligrams per kilogram

= Detected result exceeds screening level.

TABLE 70

Chemicals Detected in Site Characterization Soil Samples: Site ST005, Area North H

	Location	ST005_GP031						
	Sample ID	ST005GP031SO_00-02	ST005GP031SO_04-06	ST005GP031SO_07-09	ST005GP031SO_11-13	ST005GP031SO_19-21	ST005GP031SO_28-30	ST005GP031SO_40-42
	Sample Depth (feet)	0 - 2	4 - 6	7 - 9	11 - 13	19 - 21	28 - 30	40 - 42
	Sample Date	9/21/2011	9/21/2011	9/22/2011	9/22/2011	9/22/2011	9/22/2011	9/22/2011
Analyte	Screening Level							
Hydrocarbons-C6-C10 GRO (mg/kg)								
C6-C10 GRO	140	**1.86 J**	**1.85 J**	**1.04 B**	**1.2 B**	**1.61 B**	**3.71 J**	**0.32 B**
Hydrocarbons-C10-C25 DRO (mg/kg)								
C10-C25 DRO	250	**5.93 J**	**11.2 J**	**11.6 J**	**8.57 J**	3.79 U	**15.8**	3.43 U
Hydrocarbons-C25-C36 RRO (mg/kg)								
C25-C36 RRO	1000	**25.7 J**	**48.5 J**	**50.3 J**	**37 J**	**11.5 J**	**77.3 J**	**8.3 J**
Metals (mg/kg)								
Lead	40	**5.96**	**8.64**	**9.42**	**7.32**	**3.43**	**3.83**	**2.48**
VOCs (mg/kg)								
1,2,4-Trimethylbenzene	4.9	0.0013 U	0.000739 U	0.000907 U	**0.00157 J**	**0.00215 J**	**0.0606 J**	0.000575 U
1,3,5-Trimethylbenzene	4.2	0.00128 U	0.000727 U	**0.00103 J**	**0.00565 J**	**0.00312 J**	**0.11 J**	0.000565 U
2-Butanone (MEK)	59	**0.0133 J**	**0.00761 J**	**0.0086 J**	**0.00955 J**	**0.00471 J**	**0.00429 J**	**0.0028 J**
Acetone	88	**0.123 J**	**0.961 B**	**0.0899 B**	**0.0853 B**	**0.0442 B**	**0.0348 B**	**0.0274 B**
Benzene	0.025	**0.0015 J**	**0.00425 J**	**0.0072 J**	**0.01 J**	**0.00242 J**	**0.0117 J**	0.000466 U
Carbon Disulfide	12	**0.00157 B**	**0.000602 B**	0.000657 U	**0.000972 J**	**0.000817 J**	0.000455 U	**0.000875 J**
Chloroform	0.32	**0.00399 J**	0.00037 U	0.000453 U	0.000517 U	0.000394 U	**0.000495 J**	0.000287 U
Ethylbenzene	6.9	0.0015 U	0.000854 U	0.00105 U	**0.00124 J**	0.000911 U	0.000726 U	0.000664 U
m- & p-Xylene	6.3	**0.0154 J**	**0.0241 J**	**0.0351 J**	**0.0582 J**	**0.029 J**	**0.0728**	0.00103 U
Methylene Chloride	0.016	**0.287 B**	**0.206 B**	**0.255 B**	**0.254 B**	**0.189 B**	**0.192 B**	**0.198 B**
o-Xylene	380	0.00137 U	**0.00174 J**	**0.0184 J**	**0.0301 J**	**0.0109 J**	**0.0275 J**	0.000604 U
Toluene	6.5	**0.0165 J**	**0.0244 J**	**0.0109 J**	**0.0211 J**	**0.00674 J**	**0.0192 J**	0.000684 U
Xylenes, Total	6.3	**0.0154 J**	**0.0241 J**	**0.0536 J**	**0.0883**	**0.0399 J**	**0.1**	0.000991 U

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

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TABLE 71

Human Health Method Two CUL Screening for Soil Samples (0 to 15 feet bgs): Site ST005, Area North H

	Location			ST005_GP031			
	Sample ID			ST005GP031SO_00-02	ST005GP031SO_04-06	ST005GP031SO_07-09	ST005GP031SO_11-13
	Sample Depth (feet)			0 - 2	4 - 6	7 - 9	11 - 13
	Sample Date			9/21/2011	9/21/2011	9/22/2011	9/22/2011
Analyte	Minimum Applicable Human Health Method Two CUL	ADEC Method Two-Under 40-inch Zone-Direct Contact CUL	ADEC Method Two-Under 40-inch Zone-Outdoor Inhalation CUL				
Hydrocarbons-C6-C10 GRO (mg/kg)							
C6-C10 GRO	1400	1400	1400	**1.86 J**	**1.85 J**	**1.04 B**	**1.2 B**
Hydrocarbons-C10-C25 DRO (mg/kg)							
C10-C25 DRO	10250	10250	12500	**5.93 J**	**11.2 J**	**11.6 J**	**8.57 J**
Hydrocarbons-C25-C36 RRO (mg/kg)							
C25-C36 RRO	10000	10000	22000	**25.7 J**	**48.5 J**	**50.3 J**	**37 J**
Metals (mg/kg)							
Lead	400	400	--	**5.96**	**8.64**	**9.42**	**7.32**
VOCs (mg/kg)							
1,2,4-Trimethylbenzene	49	5100	49	0.0013 U	0.000739 U	0.000907 U	**0.00157 J**
1,3,5-Trimethylbenzene	42	5100	42	0.00128 U	0.000727 U	**0.00103 J**	**0.00565 J**
2-Butanone (MEK)	23300	60800	23300	**0.0133 J**	**0.00761 J**	**0.0086 J**	**0.00955 J**
Acetone	68600	91300	68600	**0.123 J**	**0.961 B**	**0.0899 B**	**0.0853 B**
Benzene	11	150	11	**0.0015 J**	**0.00425 J**	**0.0072 J**	**0.01 J**
Carbon Disulfide	250	4800	250	**0.00157 B**	**0.000602 B**	0.000657 U	**0.000972 J**
Chloroform	3.2	1000	3.2	**0.00399 J**	0.00037 U	0.000453 U	0.000517 U
Ethylbenzene	110	10100	110	0.0015 U	0.000854 U	0.00105 U	**0.00124 J**
m- & p-Xylene	63	20300	63	**0.0154 J**	**0.0241 J**	**0.0351 J**	**0.0582 J**
Methylene Chloride	160	1100	160	**0.287 B**	**0.206 B**	**0.255 B**	**0.254 B**
o-Xylene	--	--	--	0.00137 U	**0.00174 J**	**0.0184 J**	**0.0301 J**
Toluene	220	8100	220	**0.0165 J**	**0.0244 J**	**0.0109 J**	**0.0211 J**
Xylenes, Total	63	20300	63	**0.0154 J**	**0.0241 J**	**0.0536 J**	**0.0883**

Notes:

-- = No Method Two CUL 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 analyte concentration exceeds the minimum applicable human health Method Two CUL.

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

Method Two CULs:

ADEC Method Two - Under 40-inch Zone - Direct Contact CUL; Hydrocarbons-C6-C10 GRO, C10-C25 DRO, and C25-C36 RRO CUL values are ADEC Method Two - Under 40-inch Zone - Ingestion CUL

ADEC Method Two - Under 40-inch Zone - Outdoor Inhalation CUL

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TABLE 72

Migration to Groundwater Method Two CUL Screening for Soil Samples (Vadose Zone and Variably Saturated Zone): Site ST005, Area North H

	Location			ST005_GP031			
	Sample ID			ST005GP031SO_00-02	ST005GP031SO_04-06	ST005GP031SO_07-09	ST005GP031SO_11-13
	Sample Depth (feet)			0 - 2	4 - 6	7 - 9	11 - 13
	Sample Date			9/21/2011	9/21/2011	9/22/2011	9/22/2011
Analyte	Minimum Applicable Human Health Method Two CUL	ADEC Method Two-Under 40-inch Zone-Direct Contact CUL	ADEC Method Two-Under 40-inch Zone-Outdoor Inhalation CUL				
Hydrocarbons-C6-C10 GRO (mg/kg)							
C6-C10 GRO	1400	1400	1400	**1.86 J**	**1.85 J**	**1.04 B**	**1.2 B**
Hydrocarbons-C10-C25 DRO (mg/kg)							
C10-C25 DRO	10250	10250	12500	**5.93 J**	**11.2 J**	**11.6 J**	**8.57 J**
Hydrocarbons-C25-C36 RRO (mg/kg)							
C25-C36 RRO	10000	10000	22000	**25.7 J**	**48.5 J**	**50.3 J**	**37 J**
Metals (mg/kg)							
Lead	400	400	--	**5.96**	**8.64**	**9.42**	**7.32**
VOCs (mg/kg)							
1,2,4-Trimethylbenzene	49	5100	49	0.0013 U	0.000739 U	0.000907 U	**0.00157 J**
1,3,5-Trimethylbenzene	42	5100	42	0.00128 U	0.000727 U	**0.00103 J**	**0.00565 J**
2-Butanone (MEK)	23300	60800	23300	**0.0133 J**	**0.00761 J**	**0.0086 J**	**0.00955 J**
Acetone	68600	91300	68600	**0.123 J**	**0.961 B**	**0.0899 B**	**0.0853 B**
Benzene	11	150	11	**0.0015 J**	**0.00425 J**	**0.0072 J**	**0.01 J**
Carbon Disulfide	250	4800	250	**0.00157 B**	**0.000602 B**	0.000657 U	**0.000972 J**
Chloroform	3.2	1000	3.2	**0.00399 J**	0.00037 U	0.000453 U	0.000517 U
Ethylbenzene	110	10100	110	0.0015 U	0.000854 U	0.00105 U	**0.00124 J**
m- & p-Xylene	63	20300	63	**0.0154 J**	**0.0241 J**	**0.0351 J**	**0.0582 J**
Methylene Chloride	160	1100	160	**0.287 B**	**0.206 B**	**0.255 B**	**0.254 B**
o-Xylene	--	--	--	0.00137 U	**0.00174 J**	**0.0184 J**	**0.0301 J**
Toluene	220	8100	220	**0.0165 J**	**0.0244 J**	**0.0109 J**	**0.0211 J**
Xylenes, Total	63	20300	63	**0.0154 J**	**0.0241 J**	**0.0536 J**	**0.0883**

Notes:

-- = No Method Two CUL 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

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Bold indicates the analyte was detected

Shading indicates the analyte concentration exceeds the minimum applicable human health Method Two CUL.

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

Method Two CULs:

ADEC Method Two - Under 40-inch Zone - Direct Contact CUL; Hydrocarbons-C6-C10 GRO, C10-C25 DRO, and C25-C36 RRO CUL values are ADEC Method Two - Under 40-inch Zone - Ingestion CUL

ADEC Method Two - Under 40-inch Zone - Outdoor Inhalation CUL

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