APPENDIX H.1
DETECTION TABLES FOR
SURFACE SOIL LOCATIONS
AMS NO. 7 ESI

Analyte	ATLAS#7-AMS-7-SS-05	ATLAS#7-AMS-7-SS-06	ATLAS#7-AMS-7-SS-07	ATLAS#7-AMS-7-SS-08	ATLAS#7-AMS-7-SS-09
SW 8260B (µg/Kg)					
VOCs					
Acetone	**97.4**	**184**	**155**	9.46 U	9.12 U
Benzene	1.84 U	1.77 U	1.53 U	**2.37**	1.87 U
2-Butanone	9.08 U	8.65 U	7.76 U	**7.10 J**	**7.69 J**
Carbon disulfide	1.84 U	1.77 U	1.53 U	2.47	1.87 U
Methylene chloride	**6.22**	**31.1**	**4.29**	**43.4**	**34.7**
Toluene	1.84 U	1.77 U	1.53 U	**10.8**	1.87 U
Trichloroethene	1.84 U	1.77 U	1.53 U	1.94 U	1.87 U
1,2,4-Trimethylbenzene	1.84 U	1.77 U	1.53 U	**4.19**	1.87 U
1,3,5-Triinethylbenzene	1.84 U	1.77 U	1.53 U	**2.26**	1.87 U
Xylenes, Total	1.84 U	1.77 U	1.53 U	**16.5**	1.87 U
VOC TICs					
Acetic acid, methyl ester	ND	ND	ND	ND	ND
Butane, 2-methyl-	ND	ND	ND	**33 JN**	ND
Pentane	ND	ND	ND	**59 JN**	ND
Pentane, 2-methyl-	ND	ND	ND	**17 JN**	ND
Hexane	ND	ND	ND	**23 JN**	ND
Cyclohexane	ND	ND	ND	**10 JN**	ND
Cyclohexane, methyl-	ND	ND	ND	**13 JN**	ND
Hexanal	**22 JN**	**52 JN**	**56 JN**	**190 JN**	**160 JN**
Pentanal	ND	**15 JN**	**13 JN**	ND	**26 JN**
Benzaldehyde	ND	ND	ND	ND	ND
2-Furancarboxaldehyde	**3 JN**	**28 JN**	**17 JN**	ND	ND
Carbon dioxide	**75 JN**	**210 JN**	**160 JN**	ND	ND
Butanal, 3-methyl-	**5 JN**	ND	ND	ND	ND
Cyclotrisiloxane, hexamethyl	**3 JN**	**4 JN**	**4 JN**	ND	ND
Cyclotetrasiloxane,octarnethyl	**8 JN**	**11 JN**	**7 JN**	ND	ND
Acetaldehyde	ND	**5 JN**	**5 JN**	ND	ND
Butanal	ND	**6 JN**	**4 JN**	ND	ND
Heptanal	ND	**3 JN**	ND	ND	ND
Arsenous acid, tris(timethylsilyl)	ND	ND	ND	ND	ND
SW8082 (µg/Kg)					
PCBs					
Aroclor 1260	20.4 U	20.8 U	20.4 U	**28**	22 U
TX 1005 (µg/Kg)					
TRPH					
>C10 - C28 Hydrocarbons	25500 U	2~0600 U	25500 U	26900 U	27500
C6 - C28 Hydrocarbons	51000 U	52100 U	5 1000 U	53800 U	54900 U
SW 6010B (mg/Kg)					
Metals					
Aluminum	**4360**	**10600**	**8390**	**8600**	**7840**
Arsenic	I U	I U	**1.2**	1.1 U	1.1 U
Barium	**30.3**	**63.9**	**74.5**	**96.9**	**61.4**
Calcium	**570**	**1230**	**1590**	**53600**	**6390**
Chromium	**5.4**	**9.9**	**9.4**	**124**	**8.2**
Copper	**1.8**	**3.4**	**2.9**	**16**	**4.2**
Iron	**3660**	**7000**	**6720**	**6760**	**6810**
Lead	**3**	**5**	**4.9**	**152**	**19.3**
Magnesium	**781**	**1660**	**1540**	**3580**	**2840**

Note: Detected analyte concentrations are reported in **bold** font.

Analyte	ATLAS#7-AMS-7-SS-05	ATLAS#7-AMS-7-SS-06	ATLAS#7-AMS-7-SS-07	ATLAS#7-AMS-7-SS-08	ATLAS#7-AMS-7-SS-09
Manganese	**68.7**	**106**	**122**	**149**	**129**
Nickel	**2.8**	**5.4**	**4.7**	**5.8**	**4.6**
Potassium	**858**	**2060**	**1770**	**2330**	**1740**
Sodium	**21.1**	**54.2**	**38.3**	**86.2**	**30.3**
Vanadium	10 U	**16.9**	**16**	**15.4**	**13.2**
Zinc	10 U	**13.9**	**14.9**	**102**	**45.6**

Analyte	ATLAS#7-AMS-7-SS-10	ATLAS#7-AMS-7-SS-11	ATLAS#7-AMS-7-SS-12	ATLAS#7-AMS-7-SS-13	ATLAS#7-AMS-7-SS-14
SW 8026B (µg/Kg)					
VOCs					
Acetone	**109**	10.0 U	8.62 U	9.57 U	10.1 U
Benzene	1.94 U	2.02 U	1.70 U	1.94 U	**2.42**
2-Butanone	9.59 U	**7.87 J**	**4.57 J**	**9.14 J**	**4.11 J**
Carbon disulfide	1.94 U	2.02 U	1.70 U	1.94 U	3.37
Methylene chloride	**31.7**	**9.21 U**	**7.45 U**	**6.67 U**	**6.32 U**
Toluene	1.94 U	**2.92**	1.70 U	**3.44**	**10.7**
Trichloroethene	1.94 U	**2.25 J**	1.70 U	1.94 U	2.00 U
1,2,4-Triinethylbenzene	1.94 U	2.02 U	1.70 U	1.94 U	**5.37**
1,3,5-Trimethylbenzene	1.94 U	2.02 U	1.71 U	1.94 U	**2.74**
Xylenes, Total	1.94 U	2.47 U	1.70 U	**3.23**	**17.8**
VOC TICs					
Acetic Acid, methyl ester	ND	**56 JN**	ND	ND	ND
Butane, 2-methyl-	ND	ND	ND	**11 JN**	**35 JN**
Pentane	ND	ND	ND	ND	ND
Pentane, 2-methyl-	ND	ND	ND	ND	**19 JN**
Hexane	ND	ND	ND	ND	**25 JN**
Cyclohexane	ND	ND	ND	ND	ND
Cyclohexane, methyl-	ND	ND	ND	ND	**14 JN**
Hexanal	**29 JN**	**130 JN**	**55 JN**	**200 JN**	**58 JN**
Pentanal	**6 JN**	**26 JN**	**ND**	**42 JN**	ND
Benzaldehyde	ND	7 JN	ND	ND	ND
2-Fuiancarboxaldehyde	**6 JN**	ND	ND	ND	ND
Carbon dioxide	**360 JN**	ND	ND	ND	ND
Butanal, 3-methyl-	ND	ND	ND	ND	ND
Cyclotrisiloxane, hexamethyl	ND	ND	ND	ND	ND
Cyclotetrasiloxane,octarnethyl	**8 JN**	ND	ND	ND	ND
Acetaldehyde	ND	ND	ND	ND	ND
Butanal	ND	ND	ND	**10 JN**	ND
Heptanal	ND	ND	ND	ND	ND
Arsenous acid, tris(timethylsilyl)	**3 JN**	ND	ND	ND	ND
SW 8082 (µg/Kg)					
PCBs					
Aroclor 1260	20.4 U	**166 J**	21.3 U	**106 J**	**142 J**
TX 1005 (µg/Kg)					
TRPH					
>C10 - C28 Hydrocarbons	25500 U	28100 U	26600 U	26900 U	26300 U
C6 - C28 Hydrocarbons	51000 U	56200 U	53200 U	53800 U	52600 U

Note: Detected analyte concentrations are reported in **bold** font.

Analyte	ATLAS#7-AMS-7-SS-10	ATLAS#7-AMS-7-SS-11	ATLAS#7-AMS-7-SS-12	ATLAS#7-AMS-7-SS-13	ATLAS#7-AMS-7-SS-14
SW 6010B (mg/Kg)					
Metals					
Aluminum	**10500**	**8710**	**7380**	**7850**	**3100**
Arsenic	I U	**1.5**	1.1 U	1.1 U	1.0 U
Barium	**72**	**84.1**	**47**	**79.8**	**42.4**
Calcium	**5650**	**11200**	**2620**	**31600**	**28300**
Chromium	**9.8**	**9.8**	**7.5**	**12.3**	**4.5**
Copper	**4.1**	**9.2**	**3.2**	**5.6**	**2.9**
Iron	**7180**	**6530**	10.7 U	**7550**	**3080**
Lead	**10.4**	**18.4**	**6.6**	**22.2**	**14.5**
Magnesium	**1890**	**2380**	**5320**	**3510**	**2360**
Manganese	**139**	**129**	**83.9**	**153**	**51.9**
Nickel	**5.5**	**5.6**	**4.1**	**7.5**	**2.7**
Potassium	**2180**	**1880**	**1520**	**1970**	**569**
Sodium	**39.8**	**41.9**	**41.8**	**77.6**	**41.6**
Vanadium	**16.3**	**14.1**	**12**	**13.8**	10.3 U
Zinc	**18.8**	**181**	**32.2**	**44.3**	**11**

Qualifiers applied by data validator

J: Estimated value
UJ: Detection limit above the practical quantitation limit.
U: Non-detect to practical quantitation limit
ND: Not detected
JN: Estimated value, compound not included in calibration

Note: Detected analyte concentrations are reported in **bold** font.

APPENDIX H.2
DETECTION TABLES FOR

BORE HOLES
AMS NO. 7 ESI

Analyte	ATLAS#7-AMS7-BH06-S-00	ATLAS#7-AMS7-BH06-S-05	ATLAS#7-AMS7-BH06-S-10	ATLAS#7-AMS7-BH06-S-18	ATLAS#7-AMS7-BH06-S-76
SW 8260B (ug/Kg)					
VOCs					
Acetone	**86.0**	**41.2**	11.9 U	**16.1**	**34.6**
Methylene chloride	**21.2**	**44.0**	**51.0**	**32.7**	37.8 U
Toluene	1.72 U	2.16 U	2.36 U	1.79 U	2.10 U
Trichloroethene	1.72 U	2.16 U	2.36 U	1.79 U	2.10 U
1,2,4-trimethylbenzene	1.72 U	2.16 U	2.36 U	1.79 U	2.10 U
Xylenes, Total	1.72 U	2.16 U	2.36 U	1.79 U	2.10 U
VOCs TICs					
Pentane	ND	ND	ND	ND	ND
Hexanal	ND	ND	ND	ND	ND
2-Furancarboxaldehyde	ND	ND	ND	ND	ND
SW 8270 C (ug/Kg)					
SVOCs					
Benzo (a) anthracene	333 U	340 U	371 U	347 U	407 U
Benzo (a) pyrene	333 U	340 U	371 U	347 U	407 U
Benzo (b) fluoranthene	333 U	340 U	371 U	347 U	407 U
Chrysene	333 U	340 U	371 U	347 U	407 U
Fluoranthene	333 U	340 U	371 U	347 U	407 U
Phenanthrene	333 U	340 U	371 U	347 U	407 U
Pyrene	333 U	340 U	371 U	347 U	407 U
SVOC TICs					
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND
TX1005 (ug/Kg)					
TRPH					
>C10 - C28 Hydrocarbons	25300 U	25800 U	28100 U	26300 U	30900 U
C6 - C28 Hydrocarbons	50500 U	51500 U	56200 U	52600 U	61700 U
SW 6010B (mg/Kg)					
Metals					
Aluminum	**8200**	**5520**	**13400**	**8000**	**6120**
Arsenic	**1.4**	1.0 U	1.1 U	1.1 U	**2.2**
Barium	**54.1**	**39.7**	**69.5**	**38.9**	**35.9**
Calcium	**794**	**507**	**822**	**693**	**13300**
Chromium	**7.9**	**5.7**	**10.1**	**7.2**	**8.7**
Copper	**2.2**	**2.0**	**2.7**	**2.3**	**4.0**
Iron	**5800**	**3440**	**7100**	**5260**	**7390**
Lead	**3.2**	**2.2**	**3.4**	**2.5**	**3.0**
Magnesium	**1310**	**778**	**1680**	**1090**	**3590**
Manganese	**92.9**	**49.1**	**74.4**	**58.7**	**191**
Nickel	**4.2**	**4.5**	**5.4**	**4.2**	**6.9**
Potassium	**1390**	**811**	**2550**	**1530**	**1410**
Sodium	**38.6**	**24**	**94.7**	**60.2**	**99.2**
Vanadium	**14.9**	9.8 U	**12.7**	10.5 U	**15.9**
Zinc	**11.1**	**15.7**	**17.2**	**11.2**	**13.9**

Note: Detected analyte concentrations are reported in **bold** font.

Analytes	ATLAS#7-AMS7-BH07-S-00	ATLAS#7-AMS7-BH07-S-05	ATLAS#7-AMS7-BH07-S-10		ATLAS#7-AMS7-BH08-S-00
SW 8260B (ug/Kg)					
VOCs					
Acetone	7.74 U	9.48 U	12.5 U		**190**
Methylene chloride	**16.5**	**21.1**	**25.2**		**5.27**
Toluene	**2.15**	**3.96**	2.47 U		1.94 U
Trichloroethene	1.51 U	1.88 U	2.47 U		1.94 U
1,2,4-Trimethylbenzene	1.51 U	**2.08**	2.47 U		1.94 U
Xylenes, Total	**1.94**	**4.48**	2.47 U		1.94 U
VOC TICs					
Pentane	ND	**12.5J**	ND		ND
Hexanal	**25.8 J**	ND	ND		**37.6 J**
2-Furancarboxaldehyde	ND	ND	ND		**19.4 J**
SW 8270C (ug/KG)					
SVOCs					
Benzo (a) anthracene	**145 J**	344 U	371 U		355 U
Benzo (a) pyrene	**76 J**	344 U	371 U		355 U
Benzo (b) fluoranthene	**126 J**	344 U	371 U		355 U
Chrysene	**142 J**	344 U	371 U		355 U
Fluoranthene	**426**	344 U	371 U		355 U
Phenanthrene	**191 J**	344 U	371 U		355 U
Pyrene	**329 J**	344 U	371 U		355 U
SVOC TICs					
1,1,2,2-Tetrachloroethane	ND	ND	**15 J**		ND
TX 1005 (ug/Kg)					
TRPH					
>C10 - C28 Hydrocarbons	26900 U	26000 U	28100 U		26900 U
C6 - C28 Hydrocarbons	53800 U	52100 U	56200 U		53800 U
SW 6010B (mg/Kg)					
Metals					
Aluminum	**10800**	**11100**	**1390**		**9870**
Arsenic	**1.3**	**1.8**	1.1 U		1.1 U
Barium	**79.1**	**83.9**	**131**		**64.5**
Calcium	**16700**	**46600**	**40500**		**4540**
Chromium	**10.6**	**10.4**	**1.8**		**9.9**
Copper	**3.2**	**3.9**	1.1 U		**4.7**
Iron	**7610**	**8740**	**2090**		**7270**
Lead	**3.7**	**4.7**	**3.2**		**8.8**
Magnesium	**2670**	**4900**	**1240**		**2030**
Manganese	**132**	**186**	**169**		**132**
Nickel	**6.2**	**6.7**	1.1 U		**5.8**
Potassium	**2480**	**3020**	**348**		**2340**
Sodium	**70.2**	**121**	**59**		**69.7**
Vanadium	**16.6**	**17**	11.3 U		**15.3**
Zinc	**13.6**	**16.7**	11.3 U		**28.2**

Note: Detected analyte concentrations are reported in **bold** font.

Analytes	ATLAS#7-AMS7-BH08-S-05	ATLAS#7-AMS7-BH08-S-10	ATLAS#7-AMS7-BH08-S-15	ATLAS#7-AMS7-BH08-S-18	ATLAS#7-AMS7-BH08-S-80
SW 8260B (ug/Kg)					
VOCs					
Acetone	**52.2**	**26.4**	**62.5**	**27.8**	**26.7**
Methylene chloride	**26.7**	**30.5**	**35.8**	**34.6**	**20.5**
Toluene	1.63 U	2.29 U	2.00 U	1.83 U	1.79 U
Trichloroethene	1.63 U	2.29 U	2.00 U	**36.7**	1.79 U
1,2,4-Trimethylbenzene	1.63 U	2.29 U	2.00 U	1.83 U	1.79 U
Xylenes, Total	1.63 U	2.29 U	2.00 U	1.83 U	1.79 U
VOC TICs					
Pentane	ND	ND	ND	ND	ND
Hexanal	ND	ND	ND	ND	ND
2-Furancarboxaldehyde	ND	ND	ND	ND	ND
SW 8270C (ug/Kg)					
SVOCs					
Benzo (a) anthracene	359 U	398 U	388 U	402 U	393 U
Benzo (a) pyrene	359 U	398 U	388 U	402 U	393 U
Benzo (b) fluoranthene	359 U	398 U	388 U	402 U	393 U
Chrysene	359 U	398 U	388 U	402 U	393 U
Fluoranthene	359 U	398 U	388 U	402 U	393 U
Phenanthrene	359 U	398 U	388 U	402 U	393 U
Pyrene	359 U	398 U	388 U	402 U	393 U
SVOC TICs					
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND
TX 1005 (ug/Kg)					
TRPH					
>C10 - C28 Hydrocarbons	27200 U	30100 U	29400 U	30500 U	29800 U
C6 - C28 Hydrocarbons	54300 U	60200 U	58800 U	61000 U	59500 U
SW 6010B (mg/Kg)					
Metals					
Aluminum	**11800**	**7930**	**17700**	**15900**	**1670**
Arsenic	**1.9**	**1.4**	**2.9**	**2.5**	1.1 U
Barium	**70.8**	**54.8**	**95.2**	**122**	**13.6**
Calcium	**4950**	**13000**	**3050**	**2670**	**9340**
Chromium	**13.1**	**10.9**	**17.9**	**17**	**3.4**
Copper	**3.2**	**1.7**	**5.9**	**7.6**	1.1 U
Iron	**9370**	**10800**	**13800**	**16000**	**2400**
Lead	**4.6**	**3.8**	**7.2**	**7.4**	**1.6**
Magnesium	**2780**	**8250**	**3760**	**4240**	**916**
Mamganese	**163**	**294**	**134**	**342**	**58**
Nickel	**7.4**	**8.5**	**10.4**	**13.1**	**1.8**
Potassium	**2590**	**2870**	**4370**	**3740**	**336**
Sodium	**15.8**	**123**	11.3 U	12.3 U	**45.6**
Vanadium	**17.7**	**14.5**	**22.2**	**21.9**	11.3 U
Zinc	**19.6**	**19.7**	**29**	**36.5**	11.3 U

Qualifiers applied by data validator
J: Estimated value
UJ: Detection limit above the practical quantitation limit.
U: Non-detect tp practical quantitation limit
ND: Non-detect
R: Data rejected by data validator
JN: Estimated value, compound not included in calibration

Note: Detected analyte concentrations are reported in **bold** font.

APPENDIX H.3

GROUND WATER
AMS NO. 7 ESI

ANALYTE	ATLAS#7-AMS7-MW06-GW	ATLAS#7-AMS7-MW07-GW	ATLAS#7-AMS7-MW08-GW	ATLAS#7-AMS7-MW09-GW
EPA 200.8 (ug/L)				
Metals				
Antimony	<0.2	<0.2	1.0	<1.0
Barium	**200**	**410**	**320**	**260**
Chromium	**12**	**15**	**8.3**	**1.3**
Copper	**7.9**	**10**	**4.1**	**4.3**
Lead	**14**	**6.8**	<0.5	<2.5
Nickel	**12**	**18**	**8.7**	**100**
EPA 300.0 (mg/L)				
Nitrate				
Nitrate	**9.5**	<0.5	**0.5**	**0.7**
EPA 353.2 (mg/L)				
Nitrite				
Nitrite	**0.01**	<0.01	<0.01	<0.01
EPA 380-75WE (mg/L)				
Fluoride				
Fluoride	**0.9**	**0.6**	**0.6**	<0.1
EPA 524.2 (ug/L)				
VOCs				
Chloroform	<0.1	<0.1	**0.5**	<0.1
1,1-Dichloroethylene	<0.2	<0.2	**0.3**	<0.2
cis-1,2-Dichloroethylene	<0.1	<0.1	**30**	<0.1
trans-1,2-Dichloroethylene	<0.1	<0.1	**2.8**	<0.1
4-Isopropyltoluene	<0.1	<0.1	**0.1**	<0.1
Trichloroethylene	<0.1	<0.1	**140**	<0.1
Vinyl chloride	<0.2	<0.2	**0.2**	<0.2
Acetone	ND	ND	**8.7**	ND
EPA 525.2 (ug/L)				
SVOCs				
Di(2-ethylhexyl)phthalate	<0.6	<0.6 J	**1.0 J**	**1.3 J**
Camphorosulfonic Acid	ND	ND	**3.8**	ND
Hydrocarbon oil	ND	**21**	ND	ND
Tetradecanoic acid	ND	ND	**17**	ND
Unknown compound	ND	ND	**3.3**	ND
Dodecanoic acid	ND	ND	**27**	ND

Qualifiers applied by data validator

J: Estimated value
UJ: Detection limit above the practical quantitation limit.
U: Non-detect to practical quantitation limit.
ND: Non-detect
R: Data was rejected by the data validator
JN: Estimated value, compound not included in calibration (~)

Note: Detected analyte concentrations are reported in **bold** font.

APPENDIX H.4

WASTE BIN
AMS NO. 7 ESI

PARAMETERS	ATLAS#7-AMS7-BIN1-S	ATLAS#7-AMS7-BIN245-W	ATLAS#7-AMS7-BIN3-S
RCRA			
Reactive Cyanide, mg/Kg	ND	ND	ND
Reactive Sulfide, mg/Kg	ND	ND	ND
Corrosivity	Not Corrosive	Not Corrosive	Not Corrosive
Ignitability, Deg F	Not Ignitable to 200 °F	Not Ignitable to 200°F	Not Ignitable to 200°F
TCLP			
SW846/8260B/1311,mg/L	ND	ND	ND
SW846/8270C/1311,mg/L	ND	ND	ND
SW846/8081A/1311,mg/L	ND	ND	ND
SW846/8151A/1311,mg/L	ND	ND	ND
SW846/6010B/1311,mg/L	ND	ND	ND
SW846/7470A/1311,mg/L	ND	ND	ND

Qualifiers applied by data validator

J: Estimated value.
UJ: Detection limit above the practical quantitation limit (PQL)
U: Non-detect to practical quantitation limit (PQL)
ND: Non-detect
R: Data was rejected by the data validator
JN: Estimated value, compound not included in calibration

Note: Detected analyte concentrations are reported in **bold** font.

APPENDIX H.5

REAGENT GRADE II RINSE WATER
AMS NO. 7 ESI

PARAMETERS	ATLAS#7-AMS7-RINSE WATER
8260B	
Methylene Chloride (ug/L)	1.8 J
6010B	
	ND

Qualifiers applied by laboratory
J: Estimated value.
ND: Non-detect

Note: Detected analyte concentrations are reported in **bold** font.