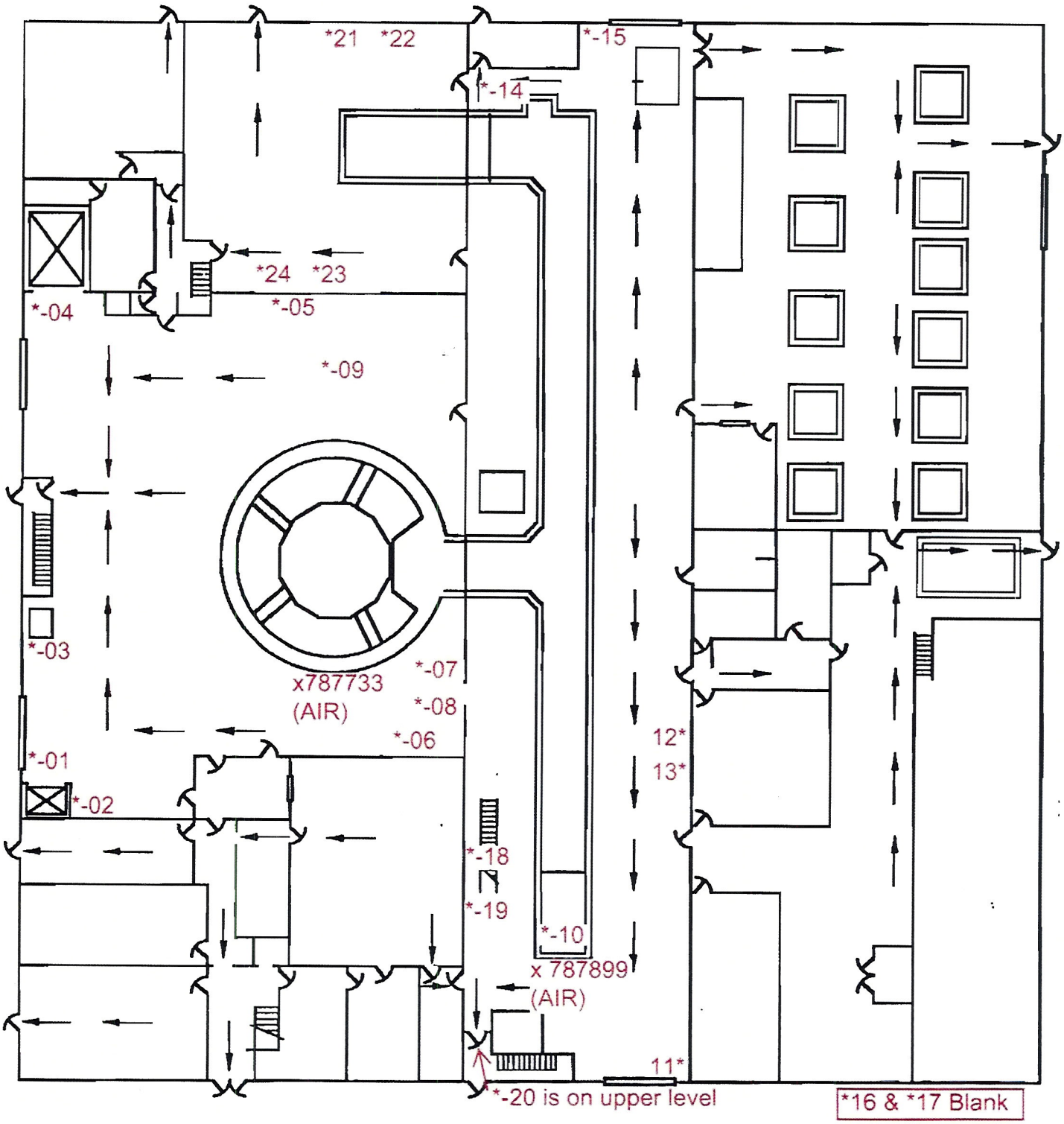
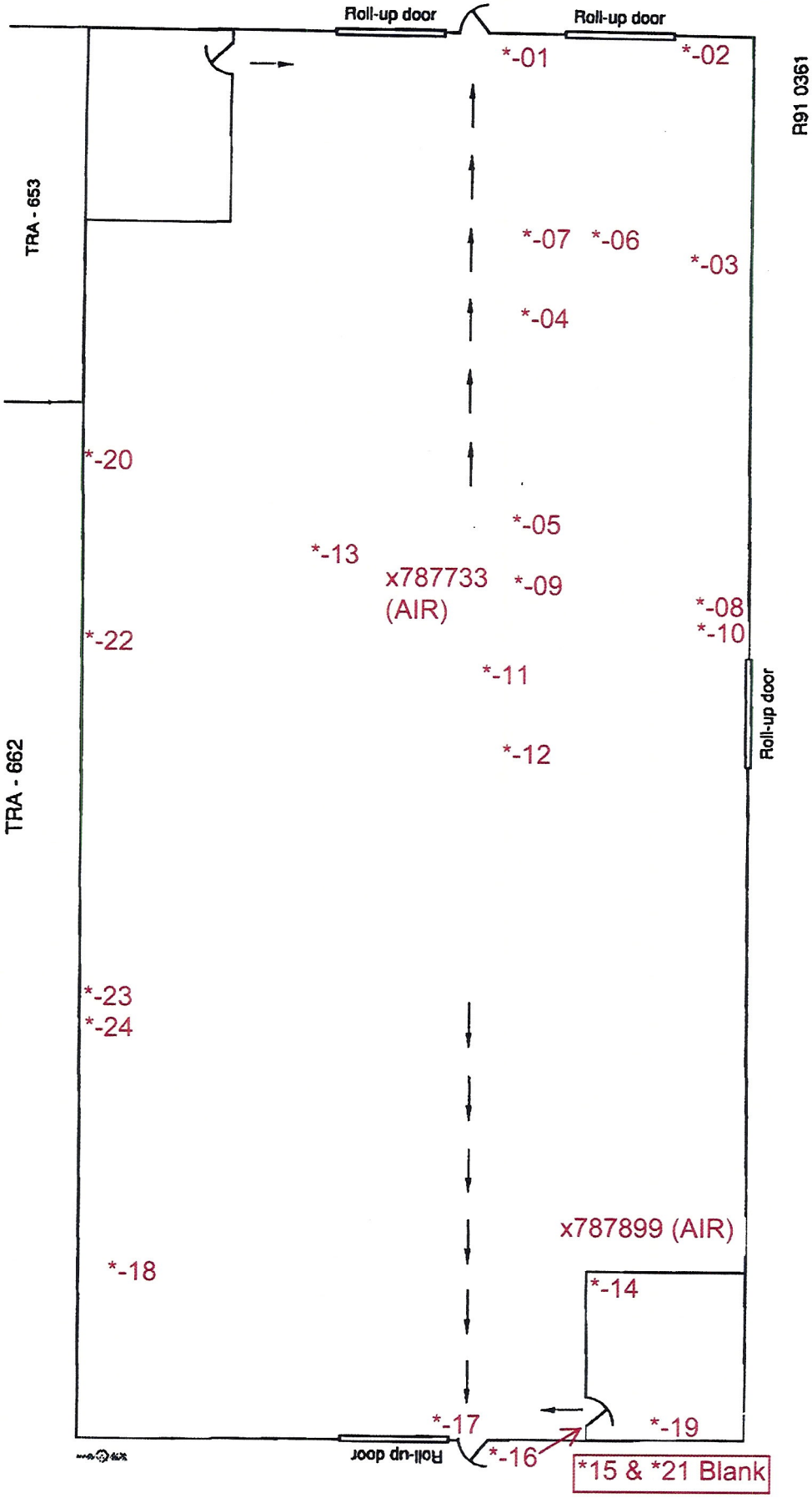


Building 670, Beryllium Sample Locations, 01/14/2010

Legend
* = Wipe Sample
x = Air Sample



Building 662, Beryllium Sample Locations, 01/13/2010

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

ANALYTICAL REPORT

Report Date January 25, 2010

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Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: 662-01 | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956001 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**3.5**	**3.5**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**1.5**	**1.5**	0.26

Sample ID: 662-02 | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956002 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**4.9**	**4.9**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**1.0**	**1.0**	0.26

Sample ID: 662-03 | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956003 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**21**	**21**	0.28
Beryllium	**0.034**	**0.034**	0.023
Copper	**23**	**23**	0.26

Sample ID: 662-04 | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956004 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	<0.28	<0.28	0.28

Results Continued on Next Page

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ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **662-04** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956004 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Beryllium	<0.023	<0.023	0.023
Copper	**0.28**	**0.28**	0.26

Sample ID: **662-05** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956005 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**12**	**12**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**10**	**10**	0.26

Sample ID: **662-06** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956006 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**16**	**16**	0.28
Beryllium	**0.025**	**0.025**	0.023
Copper	**27**	**27**	0.26

Sample ID: **662-07** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956007 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**6.3**	**6.3**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**9.8**	**9.8**	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **662-08** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956008 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**3.4**	**3.4**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**3.2**	**3.2**	0.26

Sample ID: **662-09** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956009 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**6.2**	**6.2**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**8.4**	**8.4**	0.26

Sample ID: **662-10** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956010 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**3.0**	**3.0**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**2.8**	**2.8**	0.26

Sample ID: **662-11** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956011 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**1.2**	**1.2**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**1.2**	**1.2**	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **662-12** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956012 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**0.89**	**0.89**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**2.3**	**2.3**	0.26

Sample ID: **662-13** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956013 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**5.4**	**5.4**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**7.9**	**7.9**	0.26

Sample ID: **662-14** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956014 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**5.3**	**5.3**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**6.1**	**6.1**	0.26

Sample ID: **662-15** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956015 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	<0.28	<0.28	0.28
Beryllium	<0.023	<0.023	0.023
Copper	<0.26	<0.26	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **662-16** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956016 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**2.9**	**2.9**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**6.7**	**6.7**	0.26

Sample ID: **662-17** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956017 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**21**	**21**	0.28
Beryllium	**0.067**	**0.067**	0.023
Copper	**5.5**	**5.5**	0.26

Sample ID: **662-18** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956018 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	<0.28	<0.28	0.28
Beryllium	<0.023	<0.023	0.023
Copper	<0.26	<0.26	0.26

Sample ID: **662-19** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956019 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**2.2**	**2.2**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**2.0**	**2.0**	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **662-20** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956020 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**8.0**	**8.0**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**13**	**13**	0.26

Sample ID: **662-21** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956021 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	<0.28	<0.28	0.28
Beryllium	<0.023	<0.023	0.023
Copper	<0.26	<0.26	0.26

Sample ID: **662-22** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956022 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**14**	**14**	0.28
Beryllium	**0.039**	**0.039**	0.023
Copper	**6.0**	**6.0**	0.26

Sample ID: **662-23** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956023 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**11**	**11**	0.28
Beryllium	**0.025**	**0.025**	0.023
Copper	**9.6**	**9.6**	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **662-24** | Media: Wipe | Collected: 1/13/2010
Lab ID: 1001956024 | Sampling Location: INL, ATR-662 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**5.3**	**5.3**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**4.4**	**4.4**	0.26

Sample ID: **ATR-01** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956025 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**5.1**	**5.1**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**13**	**13**	0.26

Sample ID: **ATR-02** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956026 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**19**	**19**	0.28
Beryllium	**0.029**	**0.029**	0.023
Copper	**56**	**56**	0.26

Sample ID: **ATR-03** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956027 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**5.1**	**5.1**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**15**	**15**	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **ATR-04** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956028 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**75**	**75**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**6.6**	**6.6**	0.26

Sample ID: **ATR-05** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956029 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**12**	**12**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**51**	**51**	0.26

Sample ID: **ATR-06** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956030 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**1.9**	**1.9**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**5.8**	**5.8**	0.26

Sample ID: **ATR-07** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956031 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**18**	**18**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**36**	**36**	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **ATR-08** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956032 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**1.2**	**1.2**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**2.4**	**2.4**	0.26

Sample ID: **ATR-09** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956033 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**0.83**	**0.83**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**28**	**28**	0.26

Sample ID: **ATR-10** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956034 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**0.76**	**0.76**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**0.61**	**0.61**	0.26

Sample ID: **ATR-11** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956035 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**11**	**11**	0.28
Beryllium	**0.028**	**0.028**	0.023
Copper	**3.1**	**3.1**	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
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Workorder: 1001956
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Analytical Results

Sample ID: **ATR-12** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956036 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**0.89**	**0.89**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**4.0**	**4.0**	0.26

Sample ID: **ATR-13** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956037 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**5.1**	**5.1**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**8.2**	**8.2**	0.26

Sample ID: **ATR-14** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956038 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**0.71**	**0.71**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**25**	**25**	0.26

Sample ID: **ATR-15** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956039 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**6.9**	**6.9**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**2.7**	**2.7**	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **ATR-16** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956040 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**5.2**	**5.2**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**5.7**	**5.7**	0.26

Sample ID: **ATR-17** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956041 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	<0.28	<0.28	0.28
Beryllium	<0.023	<0.023	0.023
Copper	<0.26	<0.26	0.26

Sample ID: **ATR-18** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956042 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	<0.28	<0.28	0.28
Beryllium	<0.023	<0.023	0.023
Copper	<0.26	<0.26	0.26

Sample ID: **ATR-19** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956043 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**4.6**	**4.6**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**4.1**	**4.1**	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **ATR-20** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956044 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**9.0**	**9.0**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**6.8**	**6.8**	0.26

Sample ID: **ATR-21** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956045 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**6.4**	**6.4**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**4.7**	**4.7**	0.26

Sample ID: **ATR-22** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956046 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**2.0**	**2.0**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**1.7**	**1.7**	0.26

Sample ID: **ATR-23** | Media: Wipe | Collected: 1/14/2010
Lab ID: 1001956047 | Sampling Location: INL, ATR-670 | Received: 1/19/2010

Method: NIOSH 7300 Mod. | Sampling Parameter: Area 100 cm² | Prepared: 1/21/2010 | Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**1.9**	**1.9**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**2.0**	**2.0**	0.26

ANALYTICAL REPORT

Client Project ID: Battelle Energy 011910
Purchase Order: 89267 (100911 DIS)
Workorder: 1001956
Project Manager Paul Pope

Analytical Results

Sample ID: **ATR-24**	Media: Wipe	Collected: 1/14/2010
Lab ID: 1001956048	Sampling Location: INL, ATR-670	Received: 1/19/2010

Method: NIOSH 7300 Mod.	Sampling Parameter: Area 100 cm²	Prepared: 1/21/2010
		Analyzed: 1/22/2010

Analyte	ug/sample	ug/100cm²	RL (ug/sample)
Barium	**3.6**	**3.6**	0.28
Beryllium	<0.023	<0.023	0.023
Copper	**2.3**	**2.3**	0.26

Report Authorization

Method: NIOSH 7300 Mod.

Peter P. Steen	Penny A. Foote
Analyst	Peer Review

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General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS Laboratory Group.

ALS Laboratory Group is accredited by AIHA for specific fields of testing as documented in its current scope of accreditation (ID#101574) which is available on request by contacting your project manager or view on the internet at http://www.aiha.org. The quality systems implemented in the laboratory apply to all methods performed by ALS Laboratory Group regardless of this current scope of accreditation which does not include performance based methods, modified methods, and methods applied to matrices not listed in the methods.

ALS DataChem provides professional analytical services for all samples submitted. ALS Laboratory Group is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.
LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.
ND = Not Detected, Testing result not detected above the LOD or LOQ.
** No result could be reported, see sample comments for details.
< This testing result is less than the numerical value.
( ) This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.