



Remediation Weekly Activity Summary Report Ameren LaSalle Former MGP - Soil Removal Action

Period: September 14 through 20, 2015 (Week 105) PSC Project Number 624-1202-0012
Completed By: Mark Kroenig

General Remediation Activities Completed:

PSC completed the excavation in the first section of the Canal embankment and berm and began backfilling the area. PSC began the second excavation area on Friday when overnight rains made the backfill too soft to compact. A total of 16,895.87 tons of Construction Debris (0 tons this week) and 71,537.81 tons of Non-Source Material (1,524.79 tons this week) has been removed and hauled to Republic Services-Ottawa, Illinois Landfill. A total of 11,736.95 tons of clay (2,385.51 tons this week) and 95,620.89 tons of rock (lime screenings, one-inch minus, two- to three-inch clean rock, and CA6; 250.42 tons this week) has been brought in for backfill. To address the haul roads, parking areas, and substation area, a total of 1,971.02 tons of one-inch clean rock has been brought in (91.88 tons this week). Approximately 1,000 gallons of water removed from the excavation are currently containerized, while approximately 1,827,100 gallons (0 gallons this week) have been hauled offsite for disposal.

Monday - September 14:

PSC continued to excavate the east section of the Canal embankment. The MGP-impacted material was sent to the Republic landfill by four Kirschhoffer trucks. PSC collected 12 confirmation samples from the sidewalls and floor of the excavation. The excavation was extended slightly deeper in this area to remove impacted material in the floor of the excavation. The union crew installed fencing by the Quality Liquid Feeds (QLF) building. QLF pumped water to the wastewater treatment plant (WWTP) from the storm water basin.

Tuesday - September 15:

PSC completed the excavation in the east section of the embankment. The crew pumped infiltrated water from the excavation and began backfilling with clean clay from the Republic landfill, delivered by four Kirschhoffers trucks. Stone and clay was used as the first lift for stability. The first clay lift was completed and compacted. Midwest was on site to perform side-by-side compaction tests with their nuclear density gauge (NDG) in order to recalibrate PSC's electrical density gauge (EDG). All four compaction tests passed 95% compaction. PSC collected four confirmation samples from the sidewall of the excavation. PSC also imported CA-6 from Pohar to raise the grade in the former police shooting range area. QLF pumped water from the storm water basin into the WWTP.

Wednesday - September 16:

PSC continued to backfill the embankment excavation with clean clay delivered by three Kirschhoffers trucks. The crew completed the second, third, and fourth clay backfill lifts. PSC and Midwest performed compaction tests on each lift (four on the second lift and three on each the third and fourth lifts) and all tests passed 95% compaction. PSC's EDG was determined to be faulty, so Midwest will continue with compaction testing until a new unit arrives. The elevation of Lift #4 was 449 feet. Sickley's end wall contractor was on site to construct the end wall of the QLF building. QLF pumped water from the storm water basin to the WWTP.

Thursday - September 17:

PSC continued to backfill the embankment excavation with clean clay delivered by four Kirschhoffers trucks. The crew completed the fifth, sixth, seventh, and eighth clay backfill lifts. Midwest Testing performed three compaction tests on each lift and all tests passed 95% compaction. PSC collected two confirmation samples. Sickley's endwall contractor continued to construct the end wall and place siding; they were approximately halfway done. QLF pumped water into the WWTP.

Friday - September 18:

PSC began excavating the second section of the Canal embankment because overnight rains caused the fill material to be too wet to compact. The backfilling of the first section completed next week. The MGP-impacted material from the excavation was sent to Republic landfill in four Kirschhoffer trucks. Sickley's contractor finished the QLF building end wall work. QLF pumped water into the WWTP.

Saturday - September 19:

No work performed today.

Health & Safety Activities:

Weather Conditions: This week was mostly sunny and pleasant, with rain Thursday night and continuing into Friday. Highs ranged from 79 - 86 degrees F, while lows ranged from 55 - 66 degrees F.

H&S Issues/ Other: Safety topics for the week included "Sprains and Strains," "Distracted Behind the Wheel," "Incorrect Lightning," "Guardrails," and "Look Before You Leap."

Out of Scope Items:

None.



**Air Monitoring Activity Summary Report
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Period: September 14 through 20, 2015 (Week 105)
Completed By: Mark Kroenig

PSC Project Number 624-1202-0012

**LaSalle MGP Air Monitoring Progress Report
Week Ending September 19, 2015**

Developments During Reporting Period

Activities Performed

- Time integrated air samples were collected from September 11th to September 14th and September 14th to September 17th. Samples collected on September 14th were picked up by STAT on September 14th. Samples collected on September 17th were picked up by STAT on September 17th.
- CEC performed hourly real-time air monitoring during work hour at the five time-integrated air monitoring station locations for particulate matter less than 10 micron in aerodynamic size (PM₁₀) and volatile organic compounds (VOC). Results indicate that all parameters were below the real-time action levels.

Sampling Problems Encountered

- The samplers (set up on September 17th) at the Station 2 tripped the ground fault outlet after 31 hours due to a large amount of rain on Friday (September 18th). The station was reset and is working properly.

Real-time Air Quality Exceedances Detected

- None

Time-integrated Analytical Data Received

- Time-integrated sampling results for sampling events thru include sampling events thru June 13th were reported via email on September 24th. Analytical results to date for benzene, PM₁₀ and PAHs indicate that the running average air concentration at each air monitoring station is less than the risk-based standards calculated for the project. The quality objective for naphthalene (1.07 µg/m³) and for benzene (4.68 µg/m³) have been updated to cover an anticipated period of 2 years (720 days). The peak of naphthalene observed from 1/26/2015 to 4/3/2015 has returned to an average below the quality objective. CEC will continue to update results as analytical data becomes available.

Developments Anticipated During Next Reporting Period

Activities to be Performed

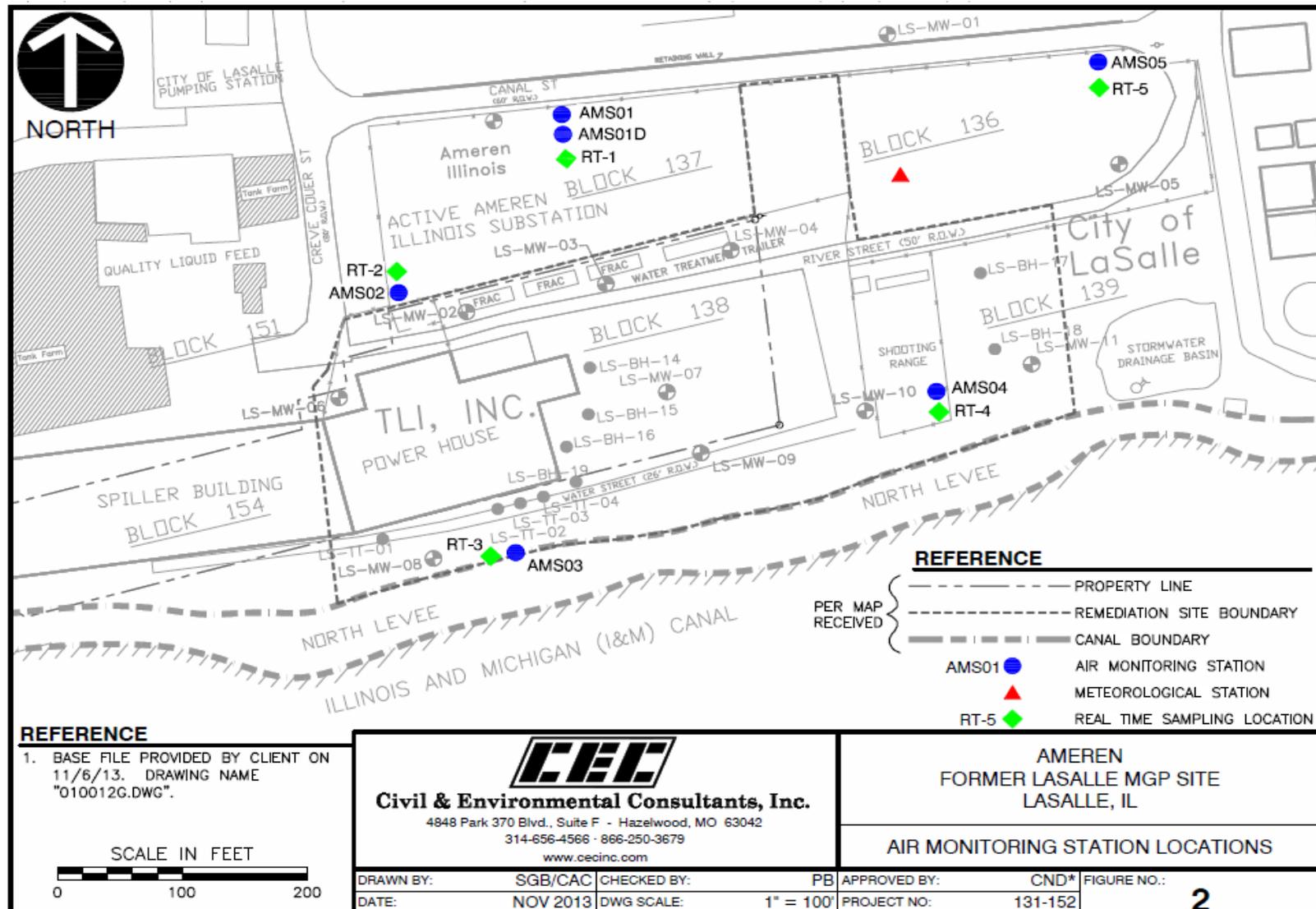
- Time-integrated air monitoring at the five air monitoring stations.
- Real-time monitoring continuing during remedial activities.
- Continue monitoring and reporting of real-time air monitoring results during the project.
- Review time-integrated analytical data and prepare preliminary air monitoring results as they become available.
- Perform data validation activities as data becomes available from STAT.



**Air Monitoring Station Locations
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**Project Milestones Summary Report
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Project Milestones

Actual Quantities

<u>Weather:</u>	<u>Prior Total:</u>	<u>This Period:</u>	<u>Total To Date:</u>	
Rainfall (inches) 2015	30.18	0.70	30.88	2014 total 41.82" rain
Snowfall (inches) winter 2014-2015	36.27	0.00	36.27	snowfall for winter 2013-2014 was 60.15"

Material Type:

Project Estimates

Original: Revised:

Solid Waste Material:

Construction & Demolition Debris- Republic (tons)	16,895.87	0.00	16,895.87	0	0
MGP Impacted Soil (Non-Source)- Republic (tons)	70,013.02	1,524.79	71,537.81	120,000*	0
MGP Impacted Soil (Source)- PDC (tons)	0.00	0.00	0.00	0	0
TOTAL	86,908.89	1,524.79	88,433.68	0	0

Addt. Solid Waste Material:

Clean Brick-Canon Pit (loads)	111.00	0.00	111.00	0	0
Asbestos Containing Material (ACM)- Republic (tons)	1,240.00	0.00	1,240.00	0	0
Scrap Metal (loads)	9.00	0.00	9.00	0	0
United Scrap Material (weight)	151.55	0.00	151.55	0	0

Clean Material:

CM-06, 1-inch Minus (tons)	14,632.93	0.00	14,632.93	0	0
Lime Screenings (tons)	67,369.82	0.00	67,369.82	0	0
CS-02, 2- to 3-Inch Clean Stone (tons)	8,556.66	113.32	8,669.98	0	0
2-Inch Clean Stone (tons)	0.00	0.00	0.00	0	0
4-Inch Crushed Concrete (tons)	0.00	0.00	0.00	0	0
Sand from River Stone	68.52	0.00	68.52	0	0
Washed sand from WA Triumph Quarry	350.46	0.00	350.46	0	0
CA6 (Grade 8 rock, tons)	4,392.08	137.10	4,529.18	0	0
<i>Stone Backfill Subtotal</i>	<i>95,370.47</i>	<i>250.42</i>	<i>95,620.89</i>	<i>0</i>	<i>0</i>
CA-7, 1-Inch Clean Stone (tons)	1,879.14	91.88	1,971.02	0	0
CA-11 from Utica Quarry (3/4 crushed, tons)	23.28	0.00	23.28	0	0
Clean Soil Backfill (tons)	9,351.44	2,385.51	11,736.95	0	0
Top Soil (cubic yard)	0.00	0.00	0.00	0	0
TOTAL	106,624.33	2,727.81	109,352.14	0	0

Impacted Wastewater:

Accumulated in onsite storage (gallons)	1,857,100	1,000	1,858,100	0	0
Discharged to PDC (gallons)	1,857,100	0	1,857,100	0	0

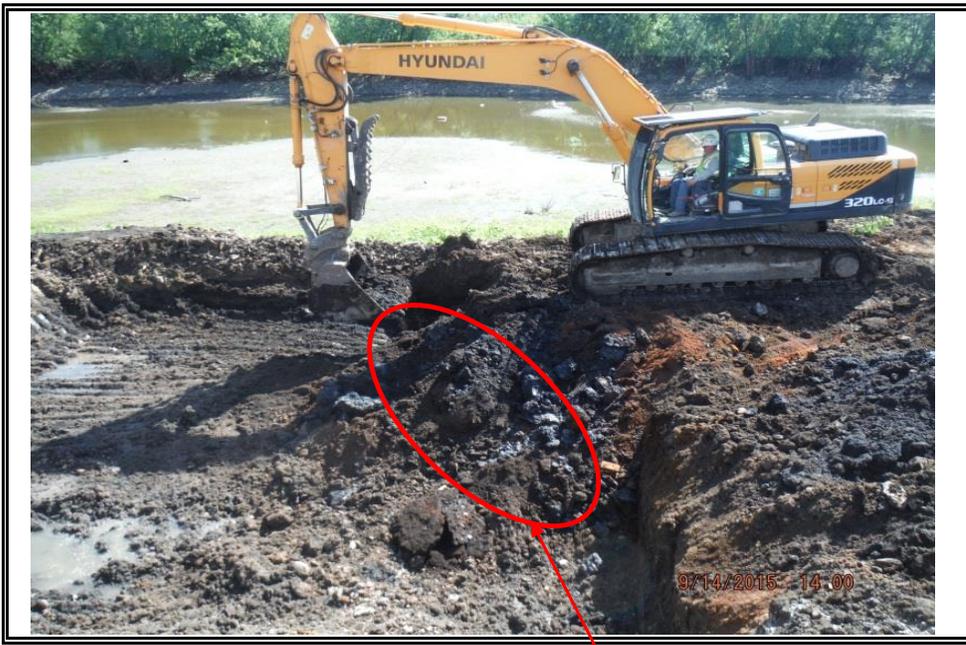
*MGP Impacted Soil volume is data presented in the site investigation report.

Trucks Transporting:

	Monday	Tuesday	Wednesday	Thursday	Friday	Issues
Actually Received	4	4	3	4	4	
Requested	4	4	4	4	4	



Steel pipe protruding under Canal berm with coal tar inside, discovered on 9/14/2015.



Looking south at impacted material found in this area and toward the Canal on 9/14/2015.



Removing an additional foot of material to get below visual impacts in the southwest corner of the first section of the embankment excavation on 9/15/2015.



Looking west at the top of clay backfill Lift #3 of the first section of the embankment excavation on 9/16/2015.

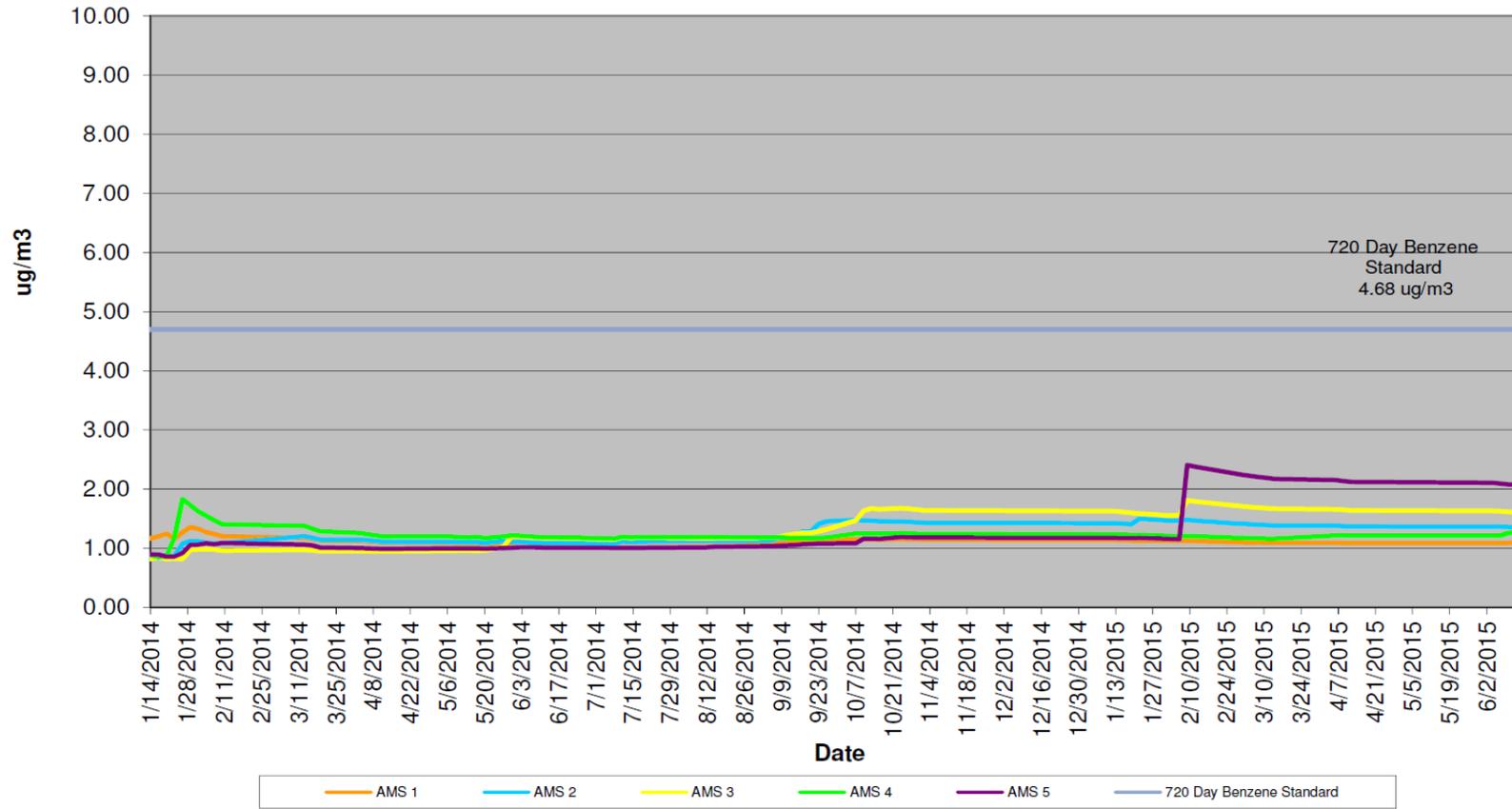


Looking south at the toe of the first embankment excavation area, which was removed to chase visually MGP-impacted material on 9/17/2015.

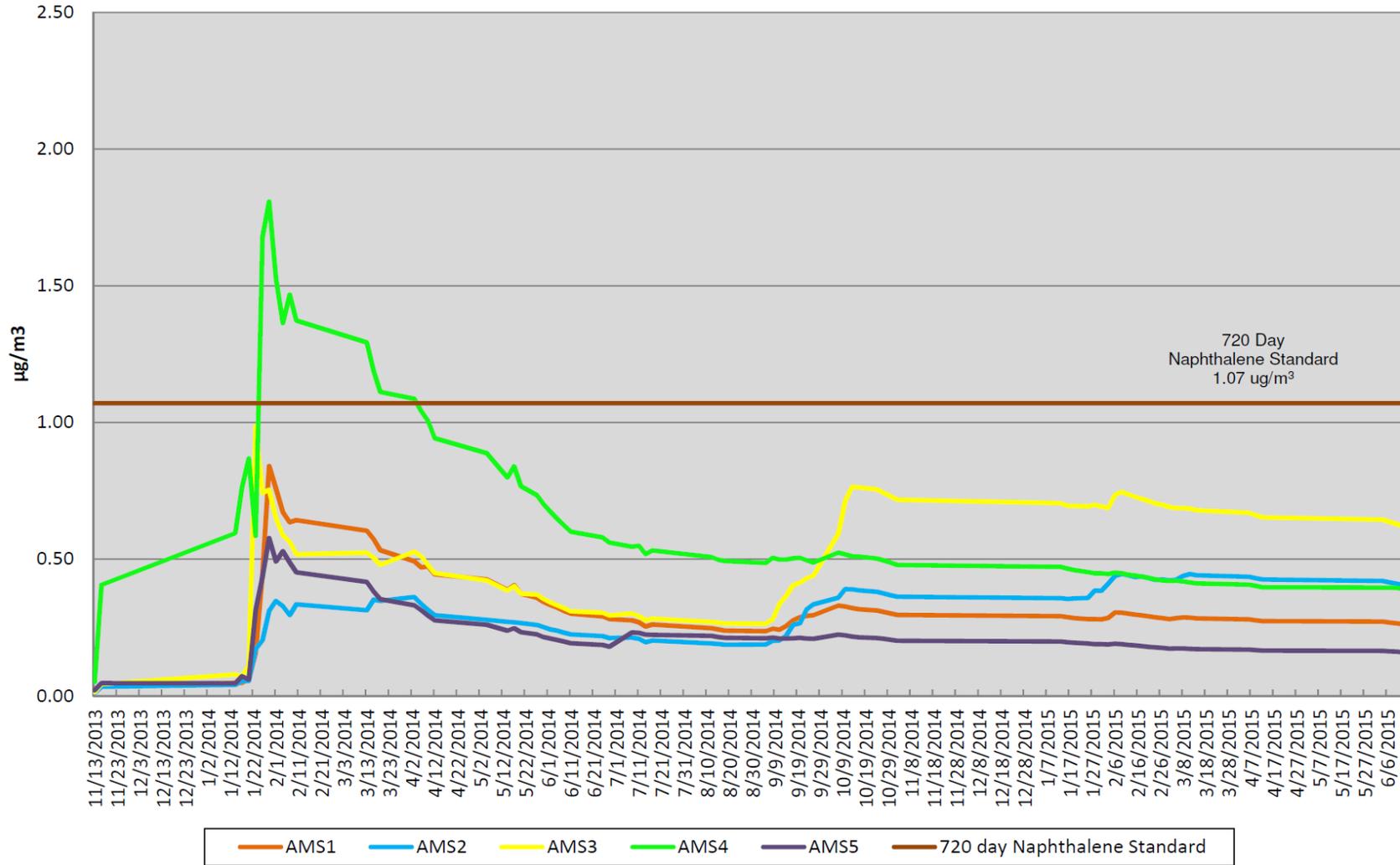


Looking west at the end wall of the QLF building, which was completed on 9/18/2015.

Preliminary Benzene Running Averages LaSalle MGP Site 1/14/2014 - 6/13/2015



Preliminary Naphthalene Running averages LaSalle MGP Site 1/14/2014-6/13/2015



**Preliminary PM₁₀ Running Averages
LaSalle MGP Site
1/14/2014 to 6/13/2015**

