



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

Period: September 21 through 27, 2015 (Week 106)
Completed By: Mark Kroenig

PSC Project Number 624-1202-0012

General Remediation Activities Completed:

PSC continued to work on the second excavation area in the Canal embankment, but was slowed when water perched in the main site backfill flooded the excavation area. The water was pumped out and backfill was placed on a portion of this area. A total of 16,895.87 tons of Construction Debris (0 tons this week) and 74,155.94 tons of Non-Source Material (2,618.13 tons this week) has been removed and hauled to Republic Services-Ottawa, Illinois Landfill. A total of 12,752.39 tons of clay (1,015.44 tons this week) and 95,620.89 tons of rock (lime screenings, one-inch minus, two-to three-inch clean rock, and CA6; 0 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 (0 tons this week). Approximately 31,000 gallons of water removed from the excavation are currently containerized, while approximately 1,887,100 gallons (60,000 gallons this week) have been hauled offsite for disposal.

Monday - September 21:

PSC resumed the excavation in the second section of the Canal embankment. Four Kirschhoffer trucks hauled the MGP-impacted material to the Republic landfill. Excavation continued to the west and deeper underneath the embankment area. As the excavation progressed deeper, water from the north side of the embankment infiltrated the excavation. The crew set up a sump and pumped water to Frac tank #2. Quality Liquid Feeds (QLF) pumped water from the storm water basin into the City's wastewater treatment plant (WWTP). Water levels in the basin were higher due to weekend rains.

Tuesday - September 22:

PSC continued to excavate in the second section of the Canal embankment with four trucks from Kirschhoffer hauling the MGP-impacted material to the Republic landfill. Material was removed around the east power pole located on the north side of the embankment. As the excavation progressed north and contacted the previous excavation backfill, more water infiltrated the excavation. The crew continued to pump water and attempted to patch leaks with clean clay. QLF pumped water into the WWTP and aerated the storm water basin.

Wednesday - September 23:

PSC continued to excavate in the second section of the Canal embankment. Four Kirschhoffer trucks hauled the MGP-impacted material to the Republic landfill. Water from the clean backfill on the north side of the embankment was still infiltrating into the excavation. The crew pumped water into the frac tanks and filled both tanks. PSC ordered a third frac tank, which was delivered in the early afternoon. The crew continued to pump water. The excavation continued deeper chasing contamination on the floor once the crew was able to pump water again. Contamination was still present at 14-15 feet below ground surface (bgs). QLF pumped water into the WWTP.

Thursday - September 24:

PSC continued to excavate in the second section of the Canal embankment with four Kirschhoffer trucks hauling the MGP-impacted material to the Republic landfill. Water infiltrated into the excavation area overnight and the crew pumped it into Frac Tank #3. A fourth frac tank was delivered to the site, per PSC's order. The crew continued to backfill the north wall of the excavation with clean clay to prevent further infiltration. Bodine was on site to haul MGP-impacted water to PDC's Clinton landfill for proper disposal. A clean floor, as determined by visual and PID inspection, was reached at elevation 438 (17 feet bgs); PSC collected a floor sample. PSC also collected a wall sample representing the material left in place around the east power pole. PSC used two Kirschhoffer trucks to haul contaminated soil to the Republic landfill and two trucks to deliver clean clay from the Republic landfill beginning mid-morning. QLF continued to aerate and pump water into the WWTP.

Friday - September 25:

PSC completed the excavation in the second section of the Canal embankment and collected two confirmation samples. The crew then began to backfill the excavation with clean clay from the Republic landfill delivered by four Kirschhoffer trucks. PSC performed compaction testing with the new electrical density gauge (EDG) in two areas on each of the following lifts: 1, 2, 3, 4, and 5; all ten tests passed 95% compaction. Bodine was on site to haul MGP-impacted water to PDC's Clinton landfill for proper disposal. QLF aerated and pumped the storm water basin into the WWTP.

Saturday - September 26:

No work performed today.

Health & Safety Activities:

Weather Conditions: This week was mostly sunny and pleasant, cooler after weekend rain. Highs ranged from 64 - 81 degrees F, while lows ranged from 50 - 55 degrees F.

H&S Issues/ Other: Safety topics for the week included "Fall Causes and Cures," "Construction Safety" "Fire Extinguishers," and "4 Basic Safety Rules." All applicable JLAs were also reviewed daily.

Out of Scope Items:

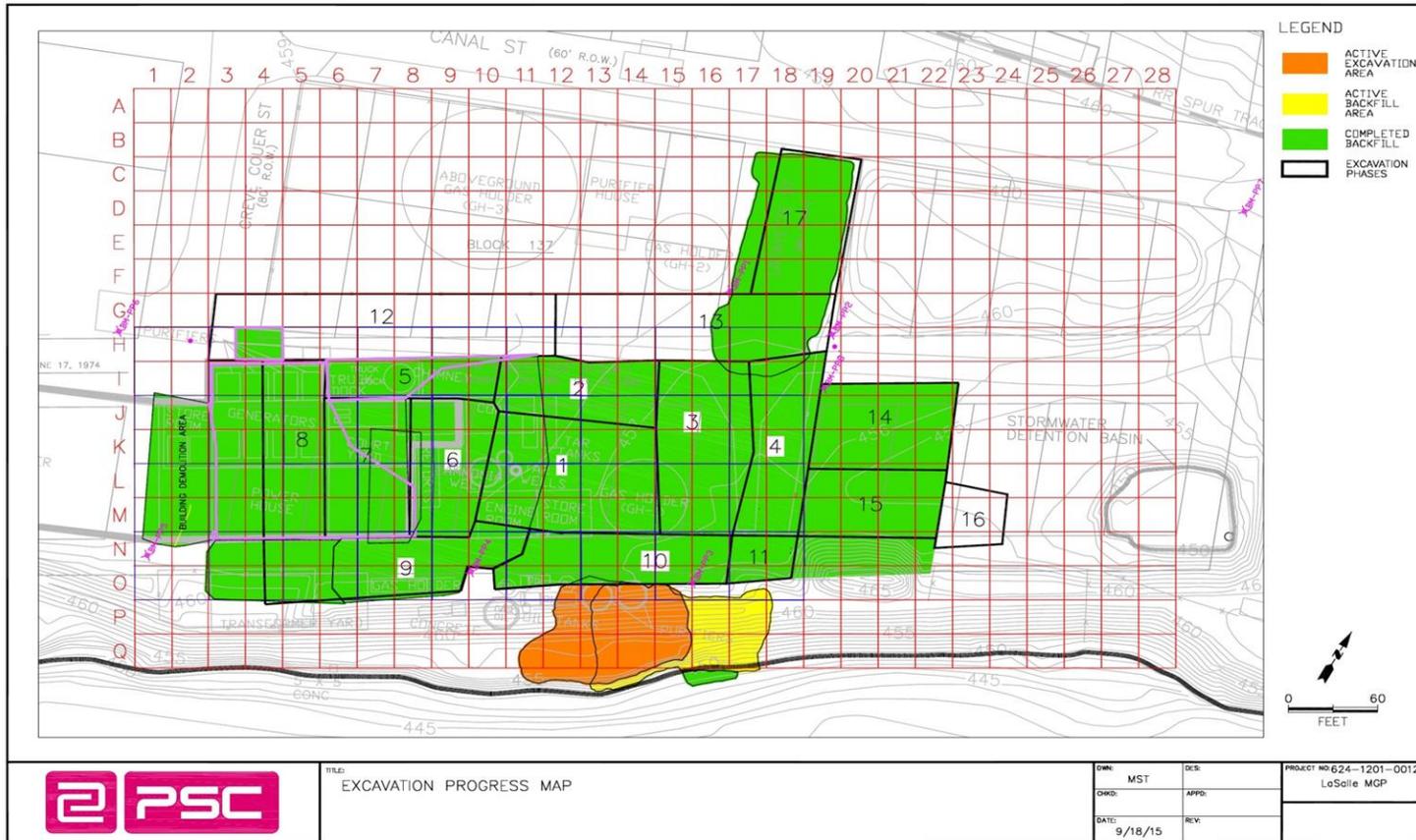
None.



Remediation Footprint and Excavation Progress Map
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**Air Monitoring Activity Summary Report
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Completed By: Mark Kroenig

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**LaSalle MGP Air Monitoring Progress Report
Week Ending September 26, 2015**

Developments During Reporting Period

Activities Performed

- Time integrated air samples were collected from September 17th to September 20th, from September 20th to September 23rd and from September 23rd to September 26th. Samples collected on September 20th were picked up by STAT on September 20th. Samples collected on September 23rd were picked up by STAT on September 23rd. Finally samples collected on September 26th were picked up by STAT on September 28rd
- CEC performed hourly real-time air monitoring during work hours 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

- None.

Real-time Air Quality Exceedances Detected

- None

Time-integrated Analytical Data Received

- Time-integrated sampling results for sampling events through September 11th for benzene and PM₁₀ and through July 24th for naphthalene were reported via email on October 1st. Analytical results to date for benzene, PM₁₀ and PAHs indicate that the running average air concentrations at each air monitoring station are less than the risk-based standards calculated for the project.
- The air quality objectives (for naphthalene and for benzene) have been updated to cover an anticipated project period of 2 years (720 days).
- CEC will continue to update results as analytical data becomes available.

Developments Anticipated During Next Reporting Period

Activities to be Performed

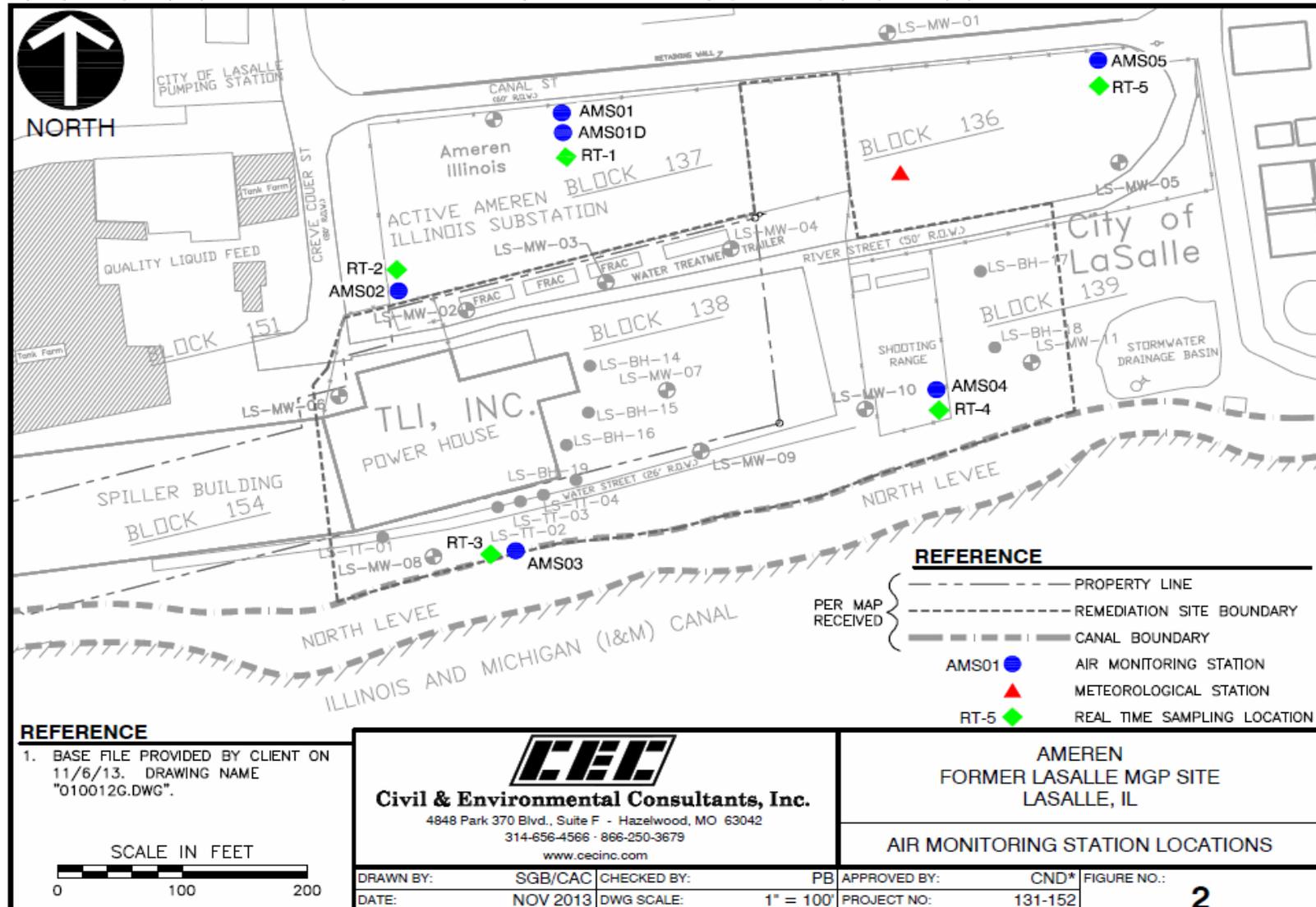
- Time-integrated air monitoring at the five air monitoring stations.
- Real-time monitoring continuing during remedial activities.
- Continue monitoring and reporting of real-time air monitoring results during the project.
- Review time-integrated analytical data and prepare preliminary air monitoring 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

Weather:

Rainfall (inches) 2015
 Snowfall (inches) winter 2014-2015

Prior Total: This Period: Total To Date:

Prior Total:	This Period:	Total To Date:
30.88	3.10	33.98
36.27	0.00	36.27

2014 total 41.82" rain
 snowfall for winter 2013-2014 was 60.15"

Material Type:

Project Estimates

Original: Revised:

Solid Waste Material:

Construction & Demolition Debris- Republic (tons)
 MGP Impacted Soil (Non-Source)- Republic (tons)
 MGP Impacted Soil (Source)- PDC (tons)
 TOTAL

	Prior Total:	This Period:	Total To Date:	Original:	Revised:
Construction & Demolition Debris- Republic (tons)	16,895.87	0.00	16,895.87	0	0
MGP Impacted Soil (Non-Source)- Republic (tons)	71,537.81	2,618.13	74,155.94	120,000*	0
MGP Impacted Soil (Source)- PDC (tons)	0.00	0.00	0.00	0	0
TOTAL	88,433.68	2,618.13	91,051.81	0	0

Addt. Solid Waste Material:

Clean Brick-Canon Pit (loads)
 Asbestos Containing Material (ACM)- Republic (tons)
 Scrap Metal (loads)
 United Scrap Material (weight)

	Prior Total:	This Period:	Total To Date:	Original:	Revised:
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)
 Lime Screenings (tons)
 CS-02, 2- to 3-Inch Clean Stone (tons)
 2-Inch Clean Stone (tons)
 4-Inch Crushed Concrete (tons)
 Sand from River Stone
 Washed sand from WA Triumph Quarry
 CA6 (Grade 8 rock, tons)

	Prior Total:	This Period:	Total To Date:	Original:	Revised:
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)	8,669.98	0.00	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)	4,529.18	0.00	4,529.18	0	0

Stone Backfill Subtotal

CA-7, 1-Inch Clean Stone (tons)
 CA-11 from Utica Quarry (3/4 crushed, tons)
 Clean Soil Backfill (tons)
 Top Soil (cubic yard)
 TOTAL

	Prior Total:	This Period:	Total To Date:	Original:	Revised:
<u>Stone Backfill Subtotal</u>	95,620.89	0.00	95,620.89	0	0
CA-7, 1-Inch Clean Stone (tons)	1,971.02	0.00	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)	11,736.95	1,015.44	12,752.39	0	0
Top Soil (cubic yard)	0.00	0.00	0.00	0	0
TOTAL	109,352.14	1,015.44	110,367.58	0	0

Impacted Wastewater:

Accumulated in onsite storage (gallons)
 Discharged to PDC (gallons)

	Prior Total:	This Period:	Total To Date:	Original:	Revised:
Accumulated in onsite storage (gallons)	1,858,100	60,000	1,918,100	0	0
Discharged to PDC (gallons)	1,857,100	30,000	1,887,100	0	0

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

Trucks Transporting:

Monday Tuesday Wednesday Thursday Friday Issues

Actually Received

Requested

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



Excavator loading MGP-impacted material into a waste hauler on 9/21/2015. Material is being shipped to Republic's landfill in Ottawa.



Looking southwest at the second section of the embankment excavation on 9/22/2015. Cinders and tar pockets are present.



Looking west at the sump created on 9/23/2015; it is filled with overnight water infiltration from the north side clean fill area.



Excavation progress in section two of the canal embankment excavation at the end of 9/24/2015.

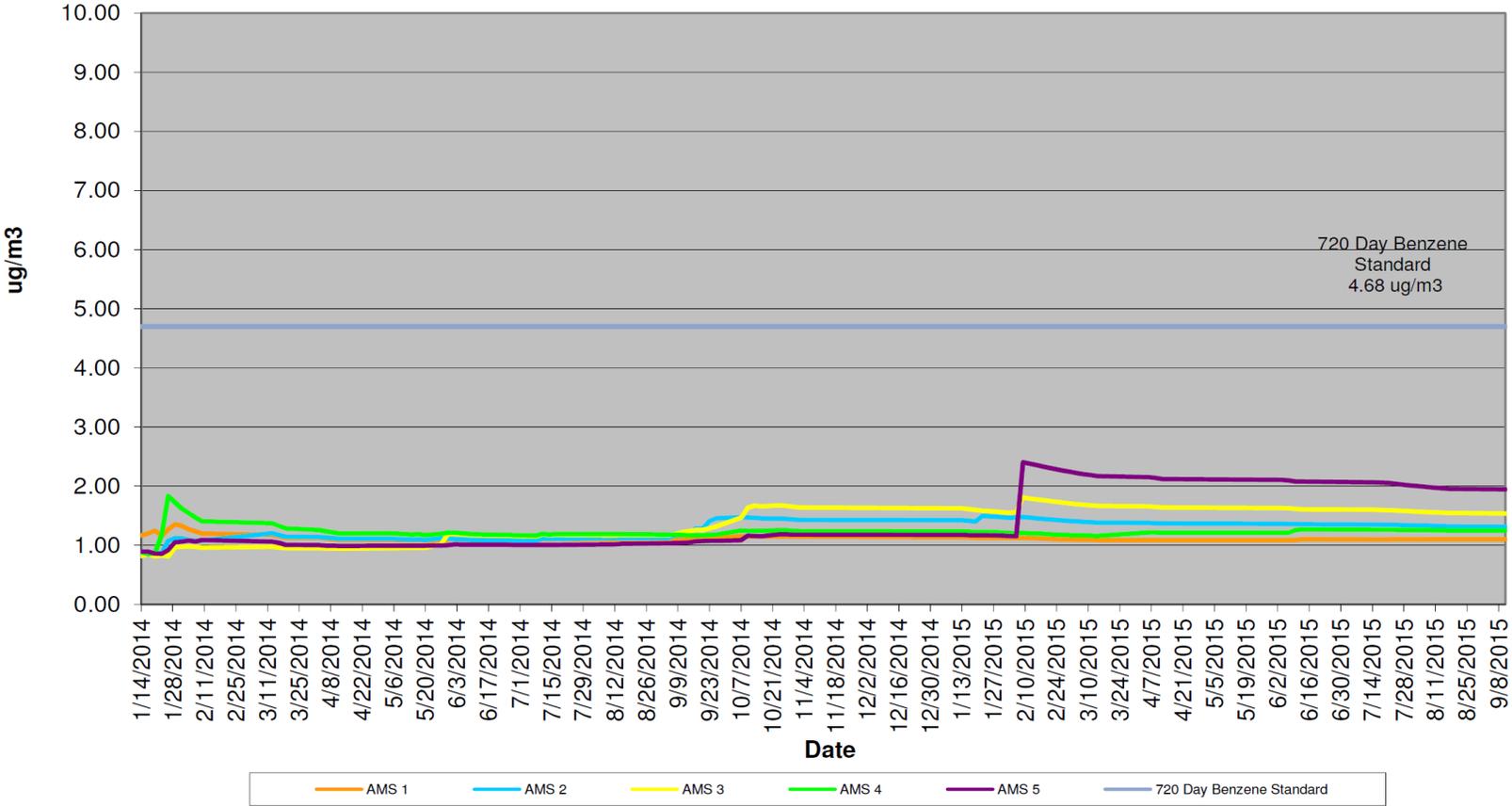


Looking southwest at the second excavation area after minimal water infiltration pumped out on 9/25/2015.

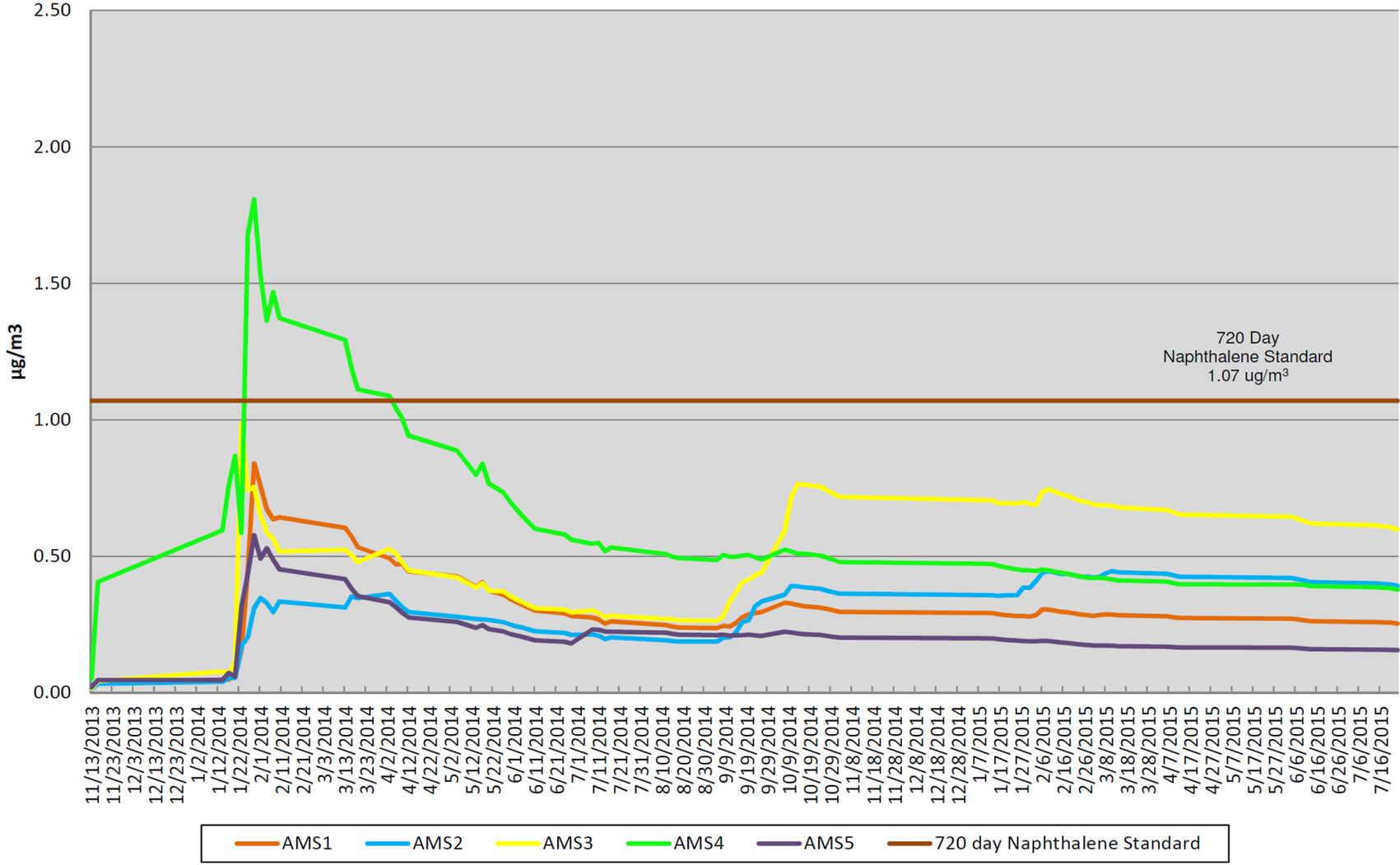


Looking southwest at the final backfill lift being placed on 9/25/2015.

**Preliminary Benzene Running Averages
LaSalle MGP Site
1/14/2014 - 9/11/2015**



**Preliminary Naphthalene Running averages
LaSalle MGP Site
1/14/2014-7/24/2015**



Preliminary PM₁₀ Running Averages LaSalle MGP Site 1/14/2014 to 9/11/2015

