

Mr. Shane Nelson, RPM/OSC
U.S. Environmental Protection Agency—Region 2
Emergency and Remedial Response Division
290 Broadway, Floor 19
New York, NY 10007-1866

November 10, 2017

Subject: Quanta Resources Corporation Superfund Site, Operable Unit 1 (OU1), Edgewater, New Jersey, Progress Report: October 2017

Dear Mr. Nelson,

This letter is the progress report required pursuant to the U.S. Environmental Protection Agency (EPA) Consent Decree (CD) for the Remedial Design (RD) and Remedial Action (RA) at the Quanta Resources Corporation Superfund Site, OU1, which was finalized with the courts on March 11, 2013.

Health and Safety

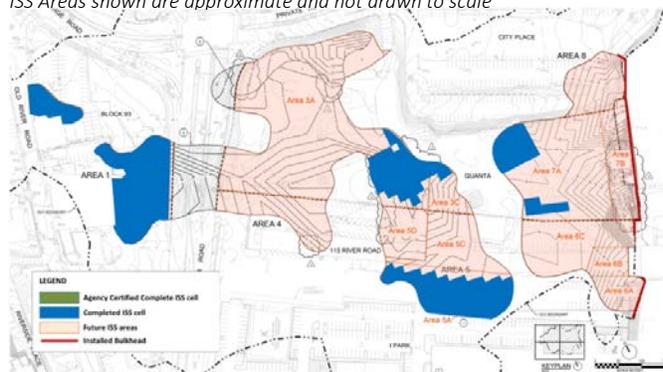
- Through October, approximately 44,120 man-hours worked without a lost-time incident
- No recordables occurred in the month of October.
- One (1) near-miss / incident occurred on October 4, 2017. A tarp for a subcontractor's dump-truck was damaged during staging.

Work Completed

The activities completed during September to comply with the Consent Decree are described in the following subsections. Figure 1 depicts the work activities completed as of the end of October.

Figure 1. Bulkhead and ISS Progress through October 2017

ISS Areas shown are approximate and not drawn to scale



OU1 NAPL Recovery

- Completed regular NAPL pumping from RW4-2 until October 19, after which the well was left to stabilize before the baildown tests scheduled for November 2, 2017.

- 15 gallons of NAPL were collected in October.

OU1 General Civil Work

- Continued debris and concrete crushing operations
- Continued Area 8 clearing activities. Used soil from Area 8 to build a temporary road between Area 8 and the Area 7A soil stockpile
- Completed concrete wharf demolition
- Removed, sized and loaded out pilings from wharf demolition for T&D
- Filled in low-lying areas on the Main Quanta Site with crushed category 2 concrete as needed to prevent ponding
- Delivered soil to upcoming ISS cells in area 7A and graded the materials to raise grades as needed for ISS
- Temporary restoration of ISS area 5A (iPark)
- Began restoration of area 5B
- Continued foaming of exposed areas and stockpiles for odor control
- Continued stockpile management as needed
- Continued dust suppression as needed

OU1 Bulkhead Installation

- Installed bracing on segment E of the bulkhead
- Completed installation of the bulkhead toe-pins within Section E and F
- As of October 6, Bulkhead contractor temporarily demobilized from Main Quanta Site pending completion of pre-clearing activities in Areas 7 and 8.

OU1 In Situ Solidification/Stabilization

- In October, eighty-five (85) cells located within Areas 1, 5B, and 7A were mixed. (see attached dashboards for maps)
- Completed ISS activities in Area 5A and 5B
- Continued with ISS activities in Area 7A
- Continued foaming of exposed areas and stockpiles for odor control
- Completed installation of misting system along perimeter fence line of Main Quanta Site

OU1 Vibration and Air Monitoring

- Continued with vibration monitoring
 - Prisms were installed on 143 River road in Area 1.
- Continued perimeter air monitoring in accordance with the Perimeter Air Monitoring Plan
 - Starting the week of October 23, offsite air samples were collected at Independence Harbor and iPark. Samples was planned for two weeks.
 - Continued with daily air sampling onsite

OU1 Offsite Waste Disposal

- Hazardous
 - Two (2) 55 gallon drums of NAPL stained PPE to Cycle Chem
 - One (1) 55 gallon drum of NAPL/water mixture to Veolia
 - One (1) 55 gallon drum of purged groundwater to EQ Michigan

- **Non-hazardous**
 - Two (2) 20-CY rollofs of asphalt to Reliable Wood, Inc.
 - One (1) 20-CY rolloff of Non-hazardous solids (vegetation) to Reliable Wood, Inc.
 - Eight (8) 30-CY rollofs of mixed metals to EverGreen Recycling Solutions
 - One (1) 30-CY rolloff of non-hazardous solids and empty plastic drums to EverGreen Recycling Solutions
 - Fourteen (14) 30-CY rollofs of non-hazardous treated wood material to C.E.C.S, Inc
 - Four (4) 50-CY dump trailer of non-hazardous treated wood material to C.E.C.S, Inc

OU1 HCAA

- Continued with bench-scale testing in accordance with the HCAA ZVI Testing Bench-scale Testing Work Plan

Site Security, Maintenance, and Inspections

- Completed weekly boom inspections and SWPPP inspections
- The soft booms were changed out on October 11, 2017.

Two Week Look Ahead

- Complete ISS on Block 93, Area 1
- Conduct baildown testing at RW4-1 and RW4-2
- Continue with ISS on the main Quanta property in Area 7A
- Complete restoration of Area 5A and 5B
- Attend Block 93 Inspection with agencies
- Attend EPA Site Visit for ISS Technology Demonstration on November 9
- Start the installation of temporary tiebacks along the bulkhead in Section D and E.
- Begin installation of new utility lines (water and sewer) for the pier building.

Data and Submittals

ISS Compliance Data Summary

All required samples to demonstrate ISS compliance with the unconfined compressive strength and permeability criteria, and the 90 percent leaching reduction goal have been collected as required by the approved remedial action work plan and QAPP this month. The ISS Results Dashboards (Attachment A) present both results for 28-day cure time compliance samples and earlier conformance data results (that is, for cure times less than 28 days) where available. Permeability results for samples collected in one cell (#1170) was higher than the criterion of 1×10^{-6} cm/s. For this cell, the backup cured cylinder will be tested at a total of approximately 60 days of curing time.

Air Monitoring Data Summary

Air monitoring data will be summarized within a quarterly data submittal planned to be submitted by end of November.

NAPL Recovery Summary

NAPL was recovered during three pumping events in October before RW4-2 was left to stabilize in advance of the November 2 baildown test. All remaining NAPL recovery wells are in a gauging-only status or were abandoned in preparation for ISS activities. Baildown testing is scheduled for November 2 at both RW4-1 and RW4-2.

Deliverables and Submittals

- Provided perimeter air monitoring data weekly to EPA.
- Submitted the Quarterly NAPL Recovery Data Report for the period from May 2017 through July 2017 to EPA on October 3, 2017.
- Received approval from EPA regarding the Block 93 Central redevelopment pile plan on October 5.

Issues and Corrective Actions

Air Monitoring

Additional off-site air sampling locations were added for two weeks in late October as detailed above. The results from the sampling activities will be summarized in a quarterly air monitoring report to be submitted to EPA later in November.

Measures being evaluated and implemented at the site to in response to elevated naphthalene results include:

- Increase in perimeter sampling
- Ongoing Evaluation of additional control measures – identification of alternative foaming agents, solvent based sprays, and use of plastic sheeting for emissions control.
- Installing perimeter misting systems in October

Hard Tar

Hard tar has been identified at multiple areas of the site. The material is difficult to remove which has slowed production onsite. Where the hard tar has been encountered, it was successfully removed, broken into the appropriate size, and incorporated back into the ISS mix. In accordance with the approved Remedial Design, no more than 30% will be added to an individual cell.

Stakeholder Communication and Community Involvement

- Submitted the monthly progress report for September on October 10.
- In October, there were 5 residential complaints submitted to EPA, Honeywell, or CH2M.
- Developed revised posters on odors and community outreach for EPA site meeting on October 18
- Attended ISS Technology Demonstration on October 18 with Honeywell, EPA, USACE, and NJDEP.
- Hosted and attended biweekly calls on October 11 and October 25 with EPA, NJDEP, USACE, Honeywell, and CH2M
- Provided weekly email progress updates for distribution to pier tenants.
- Uploaded daily air monitoring results to www.quantaremediation.com

Activities Planned for Next 6 Weeks

- Gauge sentry wells
- Complete remixing for certain cells on Block 93.
- Continue with ISS mixing
- Complete installation of the temporary tiebacks for Sections D and E of the new bulkhead
- Start data compilation and evaluations for 2016-2017 Annual NAPL Recovery Report

Schedule Update and Delays

The overall schedule for the OU1 remediation has been extended a total of approximately six to eight weeks as a result of the delays described in the following subsections (for this reporting period) and

prior status reports. To keep the project moving forward, the ISS work sequencing has been modified to allow the Civil and ISS Contractors to continue working in other areas of OU1 while delays in specific portions of the site are resolved.

Concrete Volume

Large volumes of reinforced concrete have been encountered in many of the ISS areas. The concrete has been noted to be 3-5 feet thick in some areas with reinforcement bars up to 2-inches in diameter. Removal of the reinforced concrete has taken longer than anticipated, which has resulted in delays to the ISS schedule.

Utility Easement Revision

Ongoing negotiations associated with the location of the utility corridor for the Pier Building are resulting in a delay. The proposed utility corridor will be placed along the southern edge of the 115 River Road property (parallel to iPark). Installation of the water line will be occurring in November 2017.

115 River Road Access

The demolition of the 115 River Road building may not start until late 2017/early 2018 and is expected to require 2-3 months to complete. Work will continue in accessible areas of the site as long as feasible.

Percent Complete

Work associated with the OU1 ISS Remedial Action is approximately 37 percent complete based upon the baseline schedule provided on February 15, 2017, with a revised schedule showing construction starting on Block 93 provided on May 3, 2017.

Schedule Update

A revised schedule will be provided as part of the November Status Report.

Please feel free to contact me at 267-250-7387 or Steve Coladonato, Honeywell Remediation Manager, at 302-791-6738 if you have any questions or comments regarding the Quanta project.

Sincerely,

CH2M HILL



Stephen J. Zarlinski
Project Manager

Enclosures: Attachment A, ISS Results Dashboards, Areas 3A, 3B/C, 5, and 7A

| | | |
|-----|------------------------------|-----------------------------------|
| cc: | Clay Monroe (EPA) | Rich Puvogel (EPA) |
| | Steve Coladonato (Honeywell) | John Mojka (Honeywell) |
| | Erica Bergman (NJDEP) | Greg Franz (Borough of Edgewater) |
| | Helen Fahy (Fahy Associates) | Jose Sananes (Ramboll) |
| | Neil Ravensbergen (USACE) | Rich Gajdek (USACE) |
| | Frank Rossi (Boswell) | Richard Ho (EPA) |

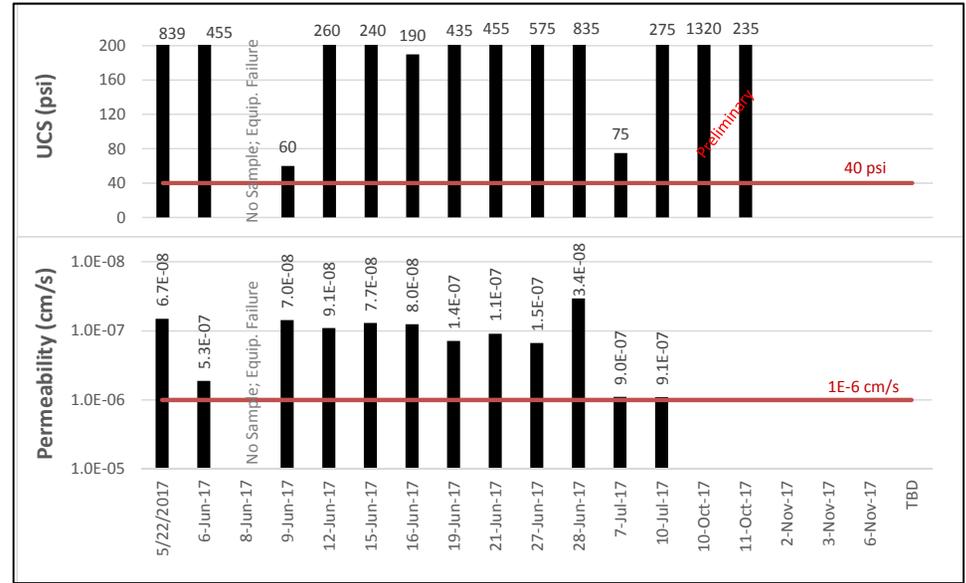
In Situ Solidification/Stabilization Results Dashboard, Areas 1 & 2

Quanta Resources Corporation Superfund Site, OU1

Updated: 11/7/2017

| Area | Date | Daily Volume (CY) | Actual Mix | | UCS (≥40 psi) | Permeability (≤1E-6 cm/s) | |
|-----------------|-----------|-------------------|------------|------|------------------------------|---------------------------|--|
| | | | Cement | Slag | | | |
| 2 | 22-May-17 | 561 | 8% | 12% | MEETS | MEETS | |
| 1 | 6-Jun-17 | 492 | 2% | 5% | MEETS | MEETS | |
| 1 | 8-Jun-17 | 80 | 2% | 6% | MEETS | MEETS | |
| 1 | 9-Jun-17 | 169 | 2% | 6% | MEETS | MEETS | |
| 1 | 12-Jun-17 | 78 | 3% | 7% | no sample; equipment failure | | |
| 1 | 15-Jun-17 | 404 | 1% | 2% | MEETS | MEETS | |
| 1 | 16-Jun-17 | 235 | 2% | 5% | MEETS | MEETS | |
| 1 | 19-Jun-17 | 149 | 2% | 5% | MEETS | MEETS | |
| 1 | 21-Jun-17 | 161 | 3% | 8% | MEETS | MEETS | |
| 1 | 27-Jun-17 | 231 | 6% | 10% | MEETS | MEETS | |
| 1 | 28-Jun-17 | 633 | 6% | 9% | MEETS | MEETS | |
| 1 | 7-Jul-17 | 513 | 5% | 7% | MEETS | MEETS | |
| 1 | 10-Jul-17 | 342 | 6% | 10% | MEETS | MEETS | |
| 1 | 10-Oct-17 | 259 | 2% | 7% | | | |
| 1 | 11-Oct-17 | 390 | 2% | 7% | | | |
| 1 | 2-Nov-17 | 318 | 6% | 8% | | | |
| 1 | 3-Nov-17 | 447 | 5% | 7% | | | |
| 1 | 6-Nov-17 | 418 | 5% | 7% | | | |
| Total CY Mixed: | | | | | 5880 | | |

data pending



| Site Constituent | | Leaching Reduction by Constituent | | |
|----------------------|------------------------|-----------------------------------|----------|----------------|
| | | 22-May-17 | 6-Jun-17 | 3-Nov-17 |
| 1 | Arsenic | 97% | 96% | Sample on Hold |
| 2 | Benzene | NE | 100% | |
| 3 | Toluene | NE | 100% | |
| 4 | Ethylbenzene | NE | 100% | |
| 5 | Total Xylenes | 98% | 100% | |
| 6 | Naphthalene | 99% | 83% | |
| 7 | Acenaphthene | 99% | 98% | |
| 8 | Acenaphthylene | 95% | 98% | |
| 9 | Anthracene | 98% | 94% | |
| 10 | Benzo(a)anthracene | 87% | 76% | |
| 11 | Benzo(a)pyrene | 95% | 87% | |
| 12 | Benzo(b)fluoranthene | 95% | 86% | |
| 13 | Benzo(g,h,i)perylene | NE | 89% | |
| 14 | Benzo(k)fluoranthene | 92% | NE | |
| 15 | Chrysene | 95% | 85% | |
| 16 | Dibenz(a,h)anthracene | NE | NE | |
| 17 | Fluoranthene | 93% | 81% | |
| 18 | Fluorene | 99% | 96% | |
| 19 | Indeno(1,2,3-cd)pyrene | 90% | NE | |
| 20 | Phenanthrene | 99% | 94% | |
| 21 | Pyrene | 94% | 80% | |
| Constituents Passing | | 14/15 | 10/18 | |

Leaching Criteria: 90% or greater reduction in leachability for the majority of the site constituents. NE - Not Evaluated; constituent not detected in baseline sample. Calculations shown in Attachment 4.



Note: Mixed areas indicated with blue shading.

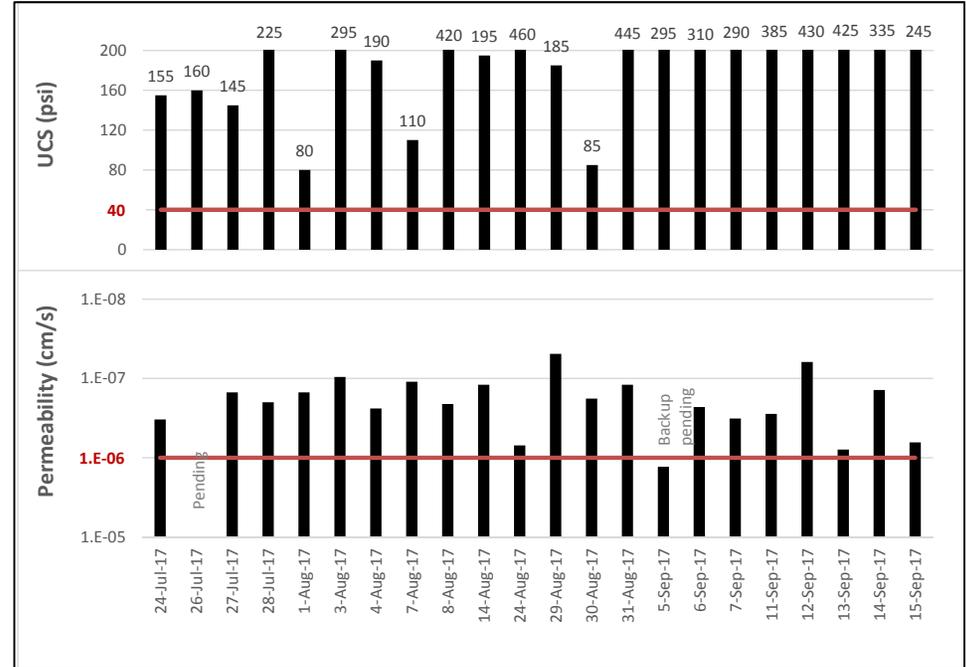
In Situ Solidification/Stabilization Results Dashboard, Areas 3A, 3B, and 3C

Quanta Resources Corporation Superfund Site, OU1

Data through: 11/7/2017

| Area | Date | Volume (CY) | Actual Mix | | UCS (≥40 psi) | Permeability (≤1E-6 cm/s) |
|-------|-----------|-------------|------------|------|---------------|---------------------------|
| | | | Cement | Slag | | |
| 3B | 24-Jul-17 | 317 | 3% | 8% | MEETS | MEETS |
| 3B | 26-Jul-17 | 623 | 2% | 6% | MEETS | Data pending |
| 3B | 27-Jul-17 | 596 | 2% | 6% | MEETS | MEETS |
| 3B | 28-Jul-17 | 596 | 2% | 6% | MEETS | MEETS |
| 3B | 1-Aug-17 | 363 | 2% | 6% | MEETS | MEETS |
| 3B | 3-Aug-17 | 311 | 2% | 6% | MEETS | MEETS |
| 3B | 4-Aug-17 | 306 | 2% | 6% | MEETS | MEETS |
| 3B/3C | 7-Aug-17 | 494 | 2% | 6% | MEETS | MEETS |
| 3C | 8-Aug-17 | 170 | 2% | 6% | MEETS | MEETS |
| 3B | 14-Aug-17 | 604 | 2% | 6% | MEETS | MEETS |
| 3B | 24-Aug-17 | 237 | 2% | 6% | MEETS | MEETS |
| 3B | 29-Aug-17 | 554 | 2% | 6% | MEETS | MEETS |
| 3B | 30-Aug-17 | 215 | 2% | 6% | MEETS | MEETS |
| 3B | 31-Aug-17 | 623 | 2% | 6% | MEETS | MEETS |
| 3B | 5-Sep-17 | 515 | 2% | 6% | MEETS | Data pending |
| 3B | 6-Sep-17 | 771 | 2% | 6% | MEETS | MEETS |
| 3B | 7-Sep-17 | 628 | 2% | 6% | MEETS | MEETS |
| 3B/3C | 11-Sep-17 | 789 | 2% | 6% | MEETS | MEETS |
| 3B | 12-Sep-17 | 567 | 2% | 6% | MEETS | MEETS |
| 3B | 13-Sep-17 | 633 | 2% | 6% | MEETS | MEETS |
| 3A/3B | 14-Sep-17 | 422 | 2% | 6% | MEETS | MEETS |
| 3B | 15-Sep-17 | 327 | 2% | 6% | MEETS | MEETS |

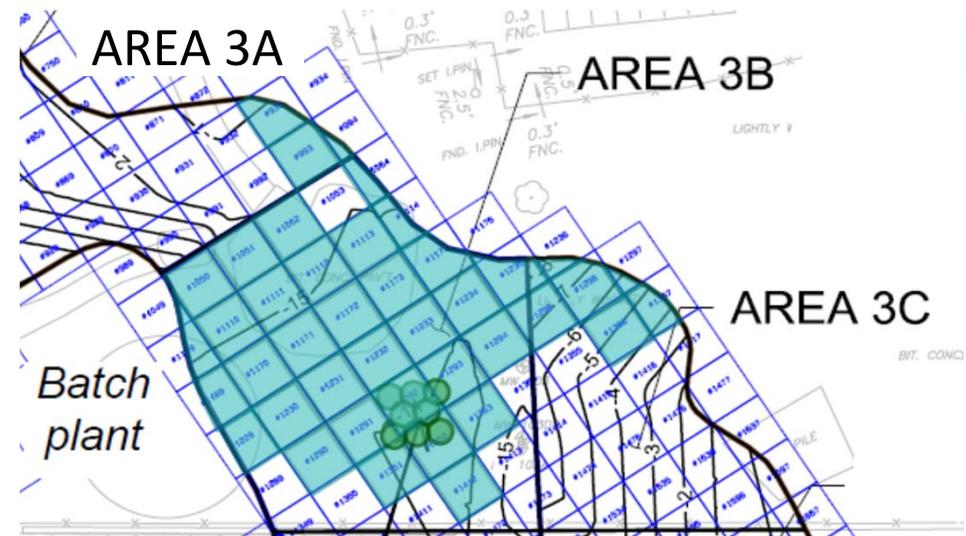
Total CY Mixed: 10661



| Leaching Reduction by Constituent | | | | | |
|-----------------------------------|--------------------|------------------|----|------------------------|-----|
| Site Constituent | | Site Constituent | | | |
| 1 | Arsenic | 99% | 12 | Benzo(b)fluoranthene | 98% |
| 2 | Benzene | 99% | 13 | Benzo(g,h,i)perylene | 98% |
| 3 | Toluene | 99% | 14 | Benzo(k)fluoranthene | 98% |
| 4 | Ethylbenzene | 99% | 15 | Chrysene | 96% |
| 5 | Total Xylenes | 99% | 16 | Dibenz(a,h)anthracene | 98% |
| 6 | Naphthalene | 98% | 17 | Fluoranthene | 91% |
| 7 | Acenaphthene | 96% | 18 | Fluorene | 95% |
| 8 | Acenaphthylene | 97% | 19 | Indeno(1,2,3-cd)pyrene | 98% |
| 9 | Anthracene | 93% | 20 | Phenanthrene | 91% |
| 10 | Benzo(a)anthracene | 95% | 21 | Pyrene | 90% |
| 11 | Benzo(b)fluorene | 99% | | | |

Constituents Passed 12/1/21

Leaching calculations for each constituent provided in Attachment 4 of the ISS Memo for this Parcel. Boxed sample dates on table above indicate collection of a leaching sample. Results shown for analyzed samples only; remaining samples on HOLD.



Note: Mixed areas indicated with blue shading. Green circles indicate previously-mixed field demonstration cell.

In Situ Solidification/Stabilization Results Dashboard, Areas 5A and 5B

Quanta Resources Corporation Superfund Site, OU1

Data through: 11/7/2017

| Area | Date | Daily Volume (CY) | Actual Mix | | UCS (≥40 psi) | Permeability (≤1E-6 cm/s) |
|-------|-----------|-------------------|------------|------|---------------|---------------------------|
| | | | Cement | Slag | | |
| 5A/5B | 19-Sep-17 | 340 | 1% | 6% | MEETS | MEETS |
| 5A/5B | 21-Sep-17 | 538 | 2% | 6% | MEETS | MEETS |
| 5A/5B | 25-Sep-17 | 518 | 2% | 6% | MEETS | MEETS |
| 5B | 13-Oct-17 | 587 | 2% | 7% | MEETS | |
| 5B | 17-Oct-17 | 580 | 3% | 7% | | |
| 5B | 18-Oct-17 | 327 | 3% | 7% | | |
| 5B | 19-Oct-17 | 297 | 3% | 7% | | |
| 5B | 20-Oct-17 | 297 | 2% | 7% | | |
| 5B | 23-Oct-17 | 611 | 3% | 7% | | |
| 5B | 24-Oct-17 | 283 | 3% | 8% | | |

Total CY Mixed: 4378

data pending

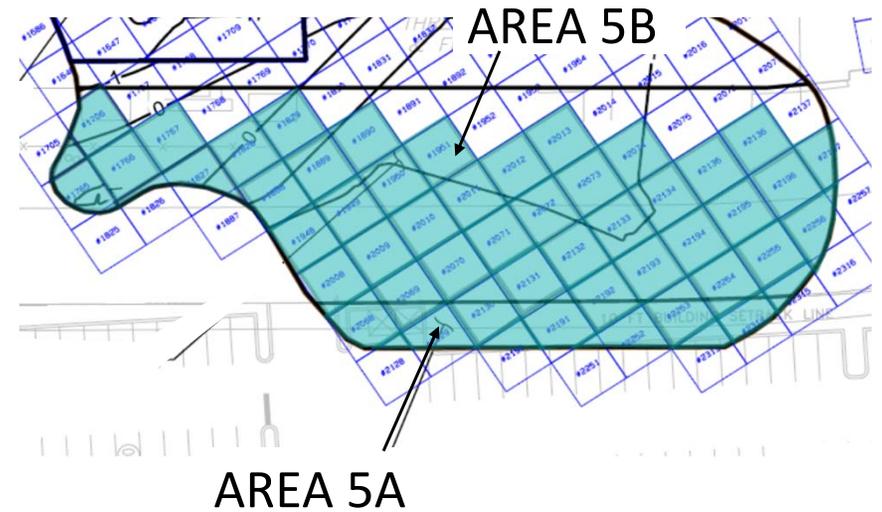
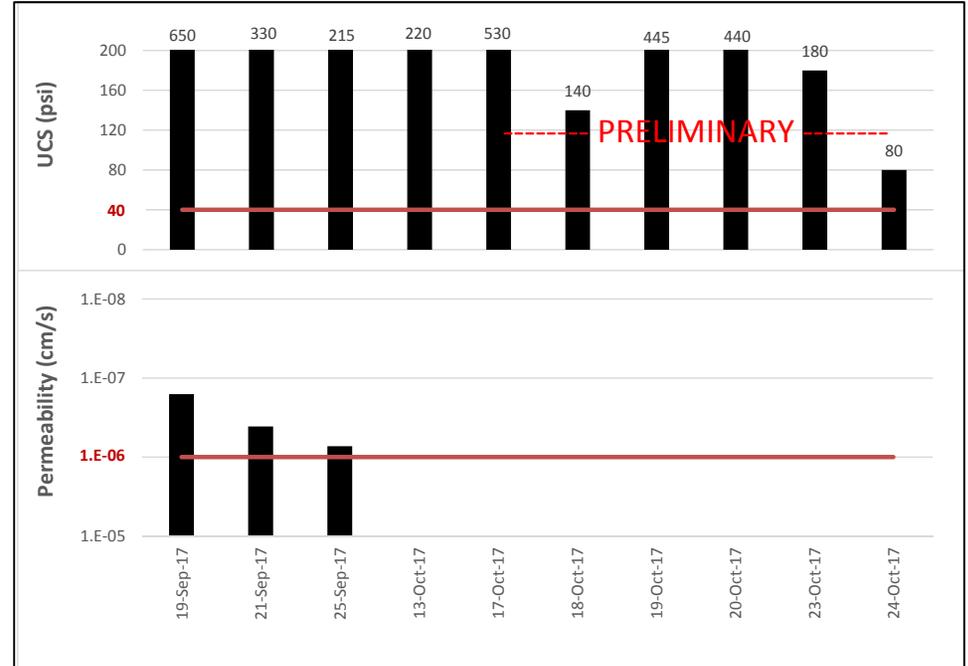
| Site Constituent | Leaching Reduction by Constituent | | |
|---------------------------|-----------------------------------|--------------|------------|
| | 26-Jul-17 | 7-Sep-17 | 13-Oct-17 |
| 1 Arsenic | 99% | | |
| 2 Benzene | 99% | | |
| 3 Toluene | 99% | | |
| 4 Ethylbenzene | 99% | | |
| 5 Total Xylenes | 99% | | |
| 6 Naphthalene | 98% | | |
| 7 Acenaphthene | 96% | | |
| 8 Acenaphthylene | 97% | | |
| 9 Anthracene | 95% | | |
| 10 Benzo(a)anthracene | 95% | | |
| 11 Benzo(a)pyrene | 99% | | |
| 12 Benzo(b)fluoranthene | 98% | | |
| 13 Benzo(g,h,i)perylene | 91% | | |
| 14 Benzo(k)fluoranthene | 98% | | |
| 15 Chrysene | 96% | | |
| 16 Dibenz(a,h)anthracene | 93% | | |
| 17 Fluoranthene | 91% | | |
| 18 Fluorene | 95% | | |
| 19 Indeno(1,2,3-cd)pyrene | 98% | | |
| 20 Phenanthrene | 91% | | |
| 21 Pyrene | 90% | | |
| | Constituents Passing | 21/21 | TBD |

PRELIMINARY DATA through Time Step 7 of 9

Sample on Hold

Data pending; sample is curing

Leaching Criteria: 90% or greater reduction in leachability for the majority of the site constituents. NE - Not Evaluated; constituent not detected in baseline sample. Leaching calculations for each constituent provided in Attachment 4 of the ISS Memo for this Parcel. Representative 20,000 CY leaching sample for Area 5A collected July 26 in Area 3. If not passing, will analyze held Sept 7 (5,000 CY) sample. Representative sample for Area 5B collected October 13, 2017 in Area 5B. Boxed sample dates on table above indicate collection of a leaching sample.



Note: Mixed areas indicated with blue shading

In Situ Solidification/Stabilization Results Dashboard, Area 7A (Leaching Batch 1)

Quanta Resources Corporation Superfund Site, OU1

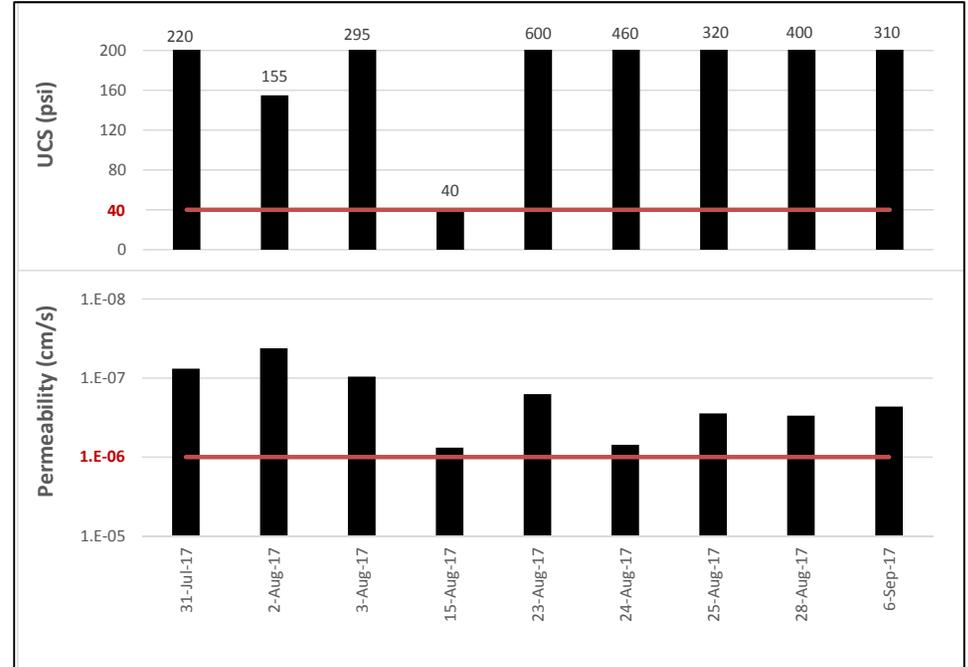
Data through: 11/7/2017

| Area | Date | Daily Volume (CY) | Actual Mix | | UCS (≥40 psi) | Permeability (≤1E-6 cm/s) |
|------|-----------|-------------------|------------|------|---------------|---------------------------|
| | | | Cement | Slag | | |
| 7A | 31-Jul-17 | 674 | 2% | 6% | MEETS | MEETS |
| 7A | 2-Aug-17 | 356 | 2% | 6% | MEETS | MEETS |
| 7A | 3-Aug-17 | 463 | 2% | 6% | MEETS | MEETS |
| 7A | 15-Aug-17 | 107 | 5% | 14% | MEETS | MEETS |
| 7A | 23-Aug-17 | 471 | 2% | 6% | MEETS | MEETS |
| 7A | 24-Aug-17 | 178 | 2% | 6% | MEETS | MEETS |
| 7A | 25-Aug-17 | 394 | 2% | 6% | MEETS | MEETS |
| 7A | 28-Aug-17 | 521 | 2% | 6% | MEETS | MEETS |
| 7A | 6-Sep-17 | 609 | 2% | 6% | MEETS | MEETS |

Total CY Mixed: 3773

| Leaching Reduction by Constituent | | |
|-----------------------------------|--------------|----------------|
| Site Constituent | 26-Jul-17 | 23-Aug-17 |
| 1 Arsenic | 99% | Sample on Hold |
| 2 Benzene | 99% | |
| 3 Toluene | 99% | |
| 4 Ethylbenzene | 99% | |
| 5 Total Xylenes | 99% | |
| 6 Naphthalene | 99% | |
| 7 Acenaphthene | 99% | |
| 8 Acenaphthylene | 99% | |
| 9 Anthracene | 99% | |
| 10 Benzo(a)anthracene | 99% | |
| 11 Benzo(a)pyrene | 99% | |
| 12 Benzo(b)fluoranthene | 99% | |
| 13 Benzo(g,h,i)perylene | 99% | |
| 14 Benzo(k)fluoranthene | 99% | |
| 15 Chrysene | 99% | |
| 16 Dibenz(a,h)anthracene | 99% | |
| 17 Fluoranthene | 99% | |
| 18 Fluorene | 99% | |
| 19 Indeno(1,2,3-cd)pyrene | 99% | |
| 20 Phenanthrene | 99% | |
| 21 Pyrene | 99% | |
| Constituents Passing | 21/21 | |

PRELIMINARY DATA through Time Step 7 of 9



Leaching Criteria: 90% or greater reduction in leachability for the majority of the site constituents.
 NE - Not Evaluated; constituent not detected in baseline sample. Leaching calculations for each constituent provided in Attachment 4 of the ISS Memo for this Parcel. Representative 20,000 CY leaching sample for this portion of Area 7A collected July 26 in Area 3. If not passing, will analyze held Aug. 23rd (5,000 CY) sample. Boxed sample dates on table above indicate collection of a leaching sample.

Note:
 Mixed areas indicated with blue shading.

In Situ Solidification/Stabilization Results Dashboard, Area 7A (Leaching Batch 2)

Quanta Resources Corporation Superfund Site, OU1

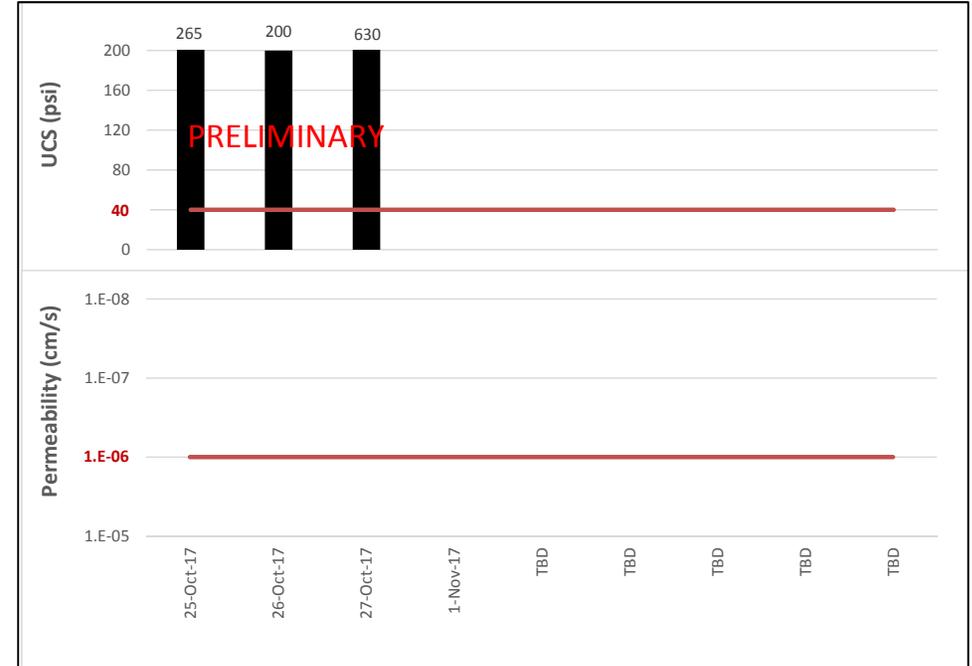
Data through: 11/7/2017

| Area | Date | Daily Volume (CY) | Actual Mix | | UCS (≥40 psi) | Permeability (≤1E-6 cm/s) |
|------|-----------|-------------------|------------|------|---------------------|---------------------------|
| | | | Cement | Slag | | |
| 7A | 25-Oct-17 | 150 | 5% | 10% | <i>data pending</i> | |
| 7A | 26-Oct-17 | 470 | 2% | 7% | | |
| 7A | 27-Oct-17 | 493 | 5% | 7% | | |
| 7A | 1-Nov-17 | 629 | 5% | 7% | | |
| 7A | TBD | | | | | |
| 7A | TBD | | | | | |
| 7A | TBD | | | | | |
| 7A | TBD | | | | | |

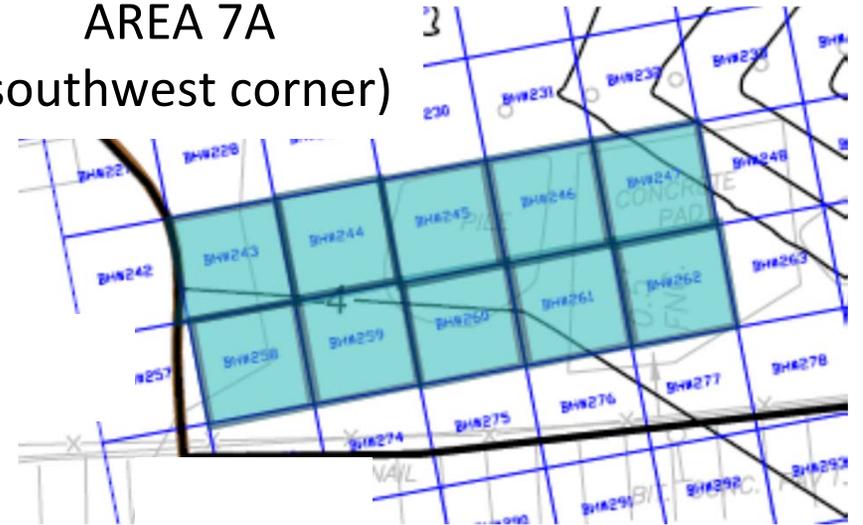
Total CY Mixed: 1742

| Leaching Reduction by Constituent | | |
|-----------------------------------|---------------------------------------|-----|
| Site Constituent | 13-Oct-17 | TBD |
| 1 Arsenic | <i>Data pending; sample is curing</i> | |
| 2 Benzene | | |
| 3 Toluene | | |
| 4 Ethylbenzene | | |
| 5 Total Xylenes | | |
| 6 Naphthalene | | |
| 7 Acenaphthene | | |
| 8 Acenaphthylene | | |
| 9 Anthracene | | |
| 10 Benzo(a)anthracene | | |
| 11 Benzo(a)pyrene | | |
| 12 Benzo(b)fluoranthene | | |
| 13 Benzo(g,h,i)perylene | | |
| 14 Benzo(k)fluoranthene | | |
| 15 Chrysene | | |
| 16 Dibenz(a,h)anthracene | | |
| 17 Fluoranthene | | |
| 18 Fluorene | | |
| 19 Indeno(1,2,3-cd)pyrene | | |
| 20 Phenanthrene | | |
| 21 Pyrene | | |
| Constituents Passing | 21/21 | |

Leaching Criteria: 90% or greater reduction in leachability for the majority of the site constituents. NE - Not Evaluated; constituent not detected in baseline sample. Leaching calculations for each constituent provided in Attachment 4 of the ISS Memo for this Parcel. Representative 20,000 CY leaching sample for this portion of Area 7A collected Oct 13 in Area 5B. Boxed sample dates on table above indicate collection of a leaching sample.



AREA 7A (southwest corner)



Note: Mixed areas indicated with blue shading.