

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

October 9, 2019

**Subject: Quanta Resources Corporation Superfund Site, Operable Unit 1 (OU1), Edgewater, New Jersey,
Progress Report: September 2019**

Dear Mr. Nelson,

This letter is the progress report required pursuant to the U.S. Environmental Protection Agency (EPA) Consent Decree 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 September 23, 2019, approximately 180,292 labor hours worked without a lost-time incident.
- On September 23, an employee suffered a cut while working in the batch plant. This incident is currently under investigation and being evaluated as a potential recordable incident.

Work Completed

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

OU1 General Civil Work

- Supported site contractor operations and continued general site maintenance activities.
- Began realignment of onsite utilities to accommodate future ISS activities.

OU1 ISS

- Began debris removal and ISS activities at Tent 3-2 located in ISS Area 3A (northwest corner of Site). Ten (10) cells (2,940 CY of material) were treated (see attached dashboard for maps).
- Continued debris removal and ISS activities at Tent 7-1 located in ISS Area 7B (adjacent to the bulkhead). Two (2) cells (617 CY of material) were treated (see attached dashboard for maps).
- Completed debris removal and ISS activities in Area 6A (adjacent to and south of the Pier Building) and installed temporary cap over completed ISS cells. Seventeen (17) cells (2,577 CY of material) were treated (see attached dashboard for maps).

OU1 Bulkhead Installation

- No bulkhead installation work activities occurred during the reporting period

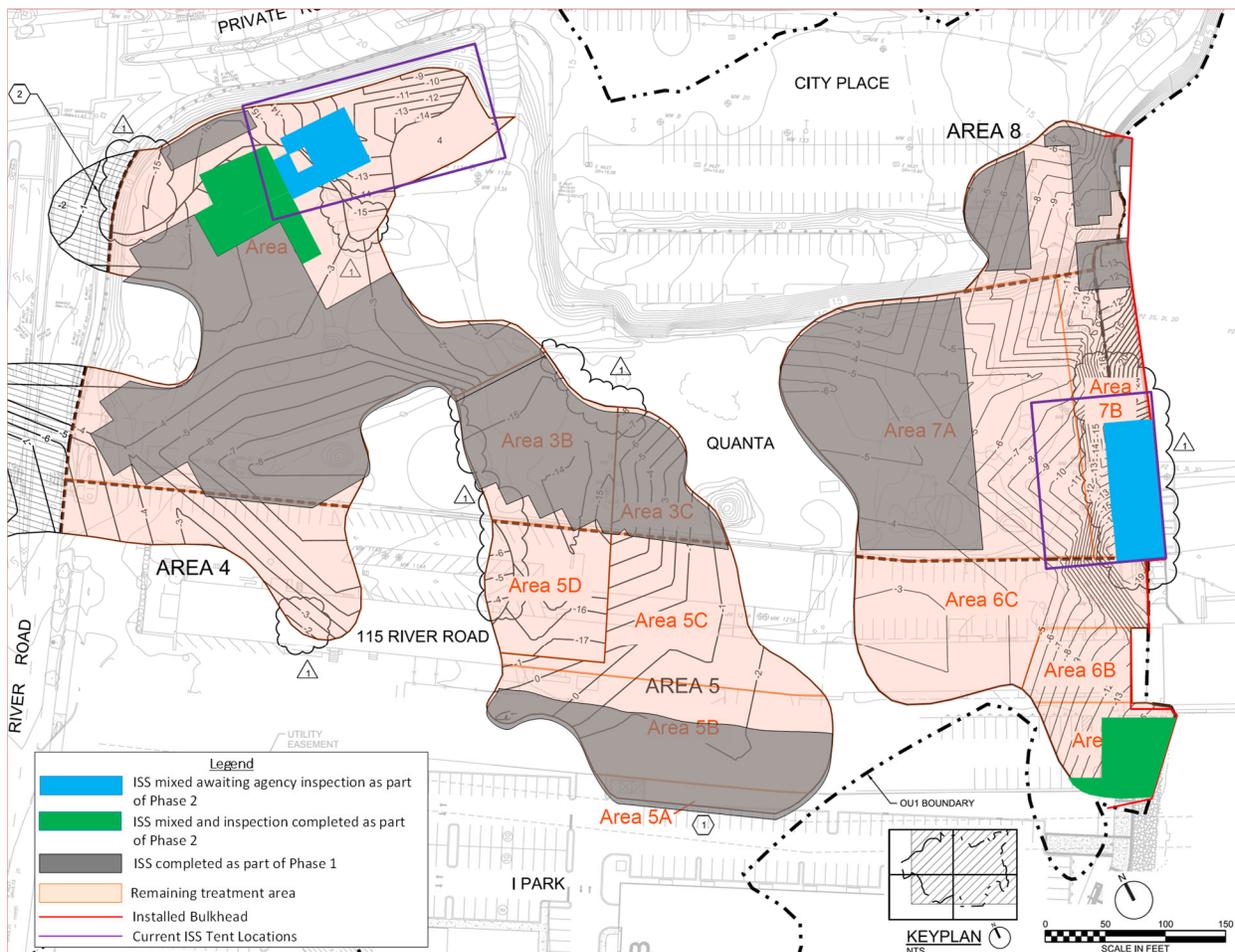


Figure 1. Bulkhead and In Situ Solidification/Stabilization (ISS) Progress through September 2019
ISS areas shown are approximate and not drawn to scale.

OU1 Vibration and Air Monitoring

- Continued with vibration and movement monitoring. Observed no vibrations outside the project limits during September.
- Continued perimeter air monitoring in accordance with the Perimeter Air Monitoring Plan and the applicable adjustments/addendums.

OU1 Offsite Waste Disposal

- Non-Hazardous
 - Three (3) 30-cy roll-offs of treated wood debris to Cavalier Environmental Compliance Services, Inc. in Sparta, NJ.
 - One (1) 20-cy roll-off of PPE debris to Environmental Recovery Corporation in Lancaster, PA.
- Hazardous
 - There was no hazardous waste shipped from the Site in September.

OU1 NAPL Recovery

- Gauged accessible sentry wells on September 20.
- 56 gallons of NAPL were pumped from RW4-2

Site Security, Maintenance, and Inspections

- Completed weekly boom and SWPPP inspections on September 6, September 13, September 20, and September 27.
- Replaced inner and outer absorbent boom on September 13.

Two-Week Look-Ahead

- Continue NAPL pumping at RW4-2.
- Gauge sentry wells.
- Begin loading out soil stockpiled inside Tent 7-1 located in ISS Area 7B (adjacent to the bulkhead) for offsite disposal. Resume debris removal and ISS activities inside this tent following soil load out.
- Continue debris removal and ISS activities in Tent 3-2 located in ISS Area 3A (northwest corner of Site). Relocate and re-shape soil stockpile inside of the tent to accommodate ISS activities.
- Begin ISS activities in Area 8 (north-east corner of the Site) outside of a tent.
- Continue realigning onsite utilities to prepare for future ISS activities.

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) presents 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. All compliance sample results received in the past month met the ROD requirements.

Air Monitoring

Provided perimeter and offsite air monitoring data when received (typically daily) to EPA. Results continue to show non-detects for naphthalene at the residential receptors during intrusive activities. These results were uploaded upon receipt to www.quantaremediation.com

Other Deliverables and Submittals

- Submitted the Quarterly NAPL Recovery Data Transmittal to EPA on September 27 associated with NAPL recovery activities from May to July 2019.
- Submitted a letter requesting EPA concurrence on September 27 associated with an adjustment to the air permit which would modify distance from carbon treatment units are allowed to be from the project boundary.

Issues and Corrective Actions

No corrective actions were taken during this reporting period.

Stakeholder Communication and Community Involvement

- Submitted the monthly progress report for August on September 9.
- Reviewed and updated the Honeywell website as needed. Coordinated preparation of written updates and maps and submitted progress photos.
- Tracked community concerns and complaints. In September, one community concern was submitted to EPA through the call center hotline.
- Provided weekly and as-needed progress updates for email distribution to pier tenants.
- Submitted weekly updates to EPA summarizing upcoming site activities.
- Uploaded daily air monitoring results to www.quantaremediation.com

Activities Planned for Next 6 Weeks

- Continue with NAPL recovery operations and submit the next quarterly data transmittal.
- Continue weekly boom inspections and SWPPP inspections, and associated maintenance.
- Relocate the soil stockpile inside Tent 3-2 in ISS Area 3A (N-W corner of Site) to the opposite side of the tent and continue debris removal and ISS activities under tent.
- Load out soil stockpiled inside Tent 7-1 in ISS Area 7B (adjacent to bulkhead) for offsite disposal and continue debris removal and ISS activities under tent. Potentially begin installation of the permanent deadmen and tie-rod system for the bulkhead in this tent.
- Complete ISS activities outside tents in Area 8.
- Complete realignment of utilities to allow ISS mixing to continue in Area 6A. Once utilities are realigned, complete bulkhead installation.

Schedule Update and Delays

The schedule is currently being completed and will be provided once finalized. Phase 2 activities are anticipated to extend into mid to late 2020.

Percent Complete

Work associated with the OU1 Remedial Action is approximately 60 percent complete.

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,



Stephen J. Zarlinski
Project Manager

Copies to:

Clay Monroe (EPA)
Steve Coladonato (Honeywell)
Erica Bergman (NJDEP)
Helen Fahy (Fahy Associates)

Rich Puvogel (EPA)
John Mojka (Honeywell)
Greg Franz (Borough of Edgewater)
Tim Johnson (Anchor QEA)

Mr. Shane Nelson, RPM/OSC
October 9, 2019
Page 5 of 5



Neil Ravensbergen (USACE)
Frank Rossi (Boswell)
Michael Johnson (USACE)
Devin Sokolich (Hongkun USA)

Rich Gajdek (USACE)
Neil Kolb (USACE)

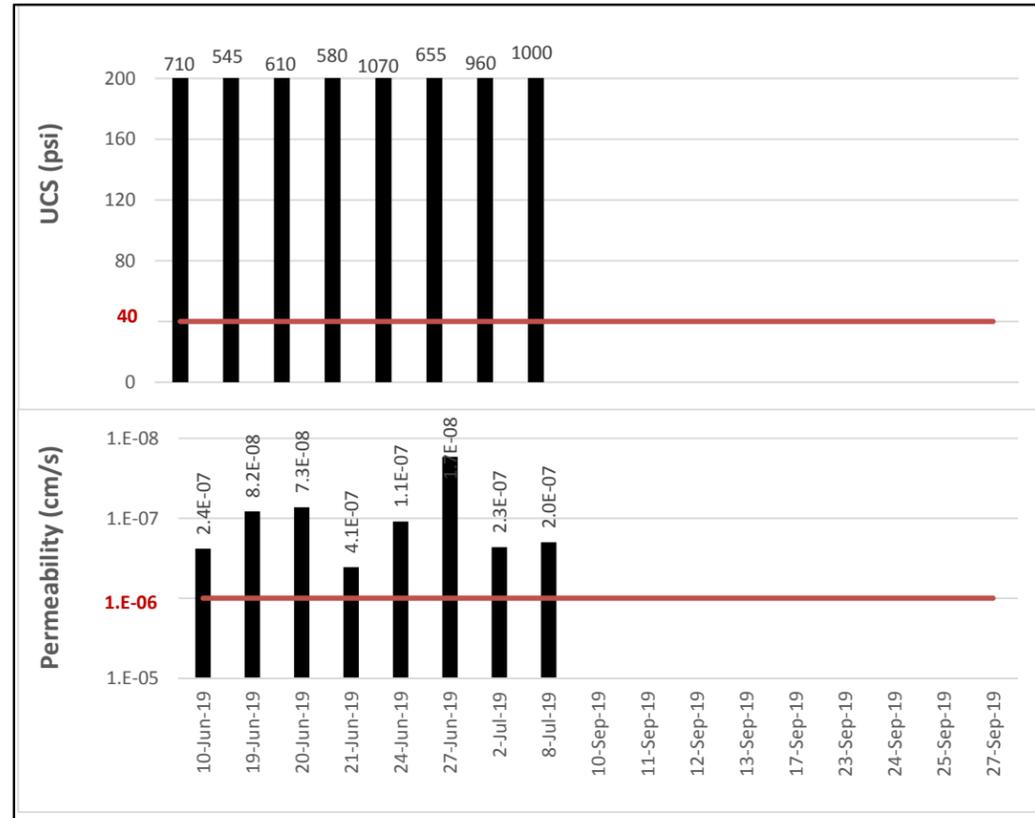
In Situ Solidification/Stabilization Results Dashboard, Leaching Batch 5

Quanta Resources Corporation Superfund Site, OU1

Data through: 10/1/2019

Tent	Date	Volume (CY)	Mix Design		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
3-1	10-Jun-19	288	2%	6%	710	2.40E-07
3-1	19-Jun-19	167	2%	6%	545	8.20E-08
3-1	20-Jun-19	166	2%	6%	610	7.30E-08
3-1	21-Jun-19	280	2%	6%	580	4.10E-07
3-1	24-Jun-19	147	2%	6%	1070	1.10E-07
3-1	27-Jun-19	343	2%	6%	655	1.70E-08
3-1	2-Jul-19	343	2%	6%	960	2.30E-07
3-1	8-Jul-19	342	2%	6%	1000	2.00E-07
3-2	10-Sep-19	179	2%	6%		
3-2	11-Sep-19	339	2%	6%		
3-2	12-Sep-19	293	2%	6%		
3-2	13-Sep-19	182	2%	6%		
3-2	17-Sep-19	343	2%	6%		
3-2	23-Sep-19	342	2%	6%		
3-2	24-Sep-19	327	2%	6%		
3-2	25-Sep-19	287	2%	6%		
3-2	27-Sep-19	327	2%	6%		
3-2	30-Sep-19	327	2%	6%		

Total CY Mixed: 5023



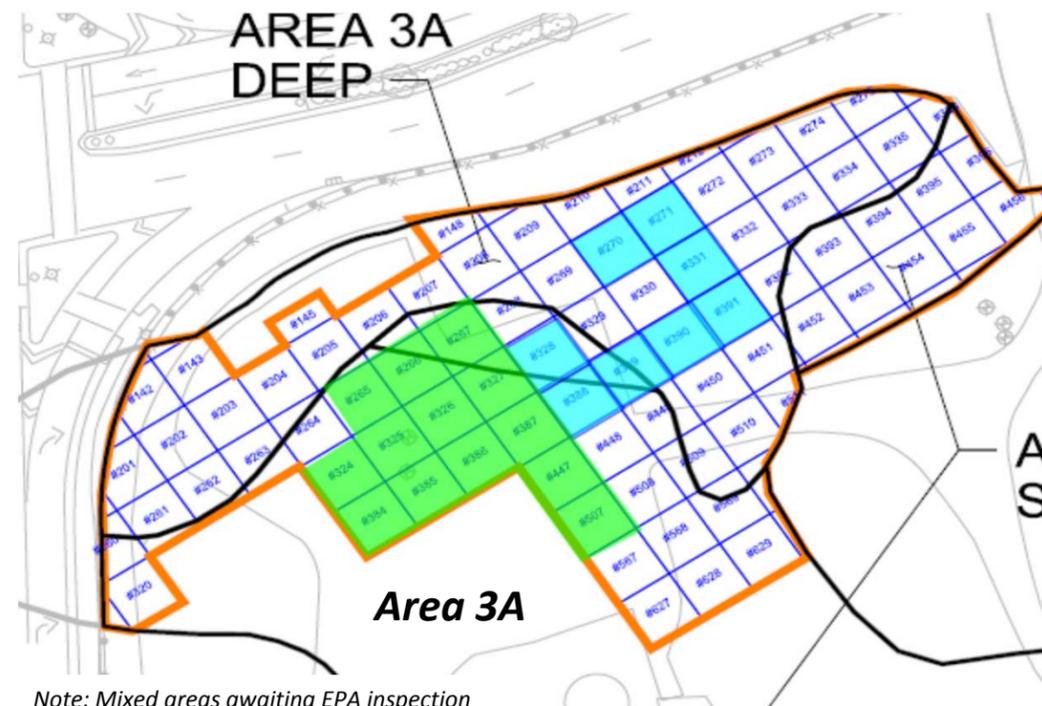
Leaching Reduction by Constituent

Site Constituent	8-Jul-19		
1 Arsenic			
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			

Data Pending

Constituents Passing

Leaching calculations for each constituent provided in the ISS Memo for this Parcel. Boxed sample dates on table above indicate collection of a leaching sample. Constituents with 90+% reduction are shaded green. NE - Not Evaluated; constituent not detected in baseline sample.



Note: Mixed areas awaiting EPA inspection indicated with blue shading. Green cells are

In Situ Solidification/Stabilization Results Dashboard, Leaching Batch 6

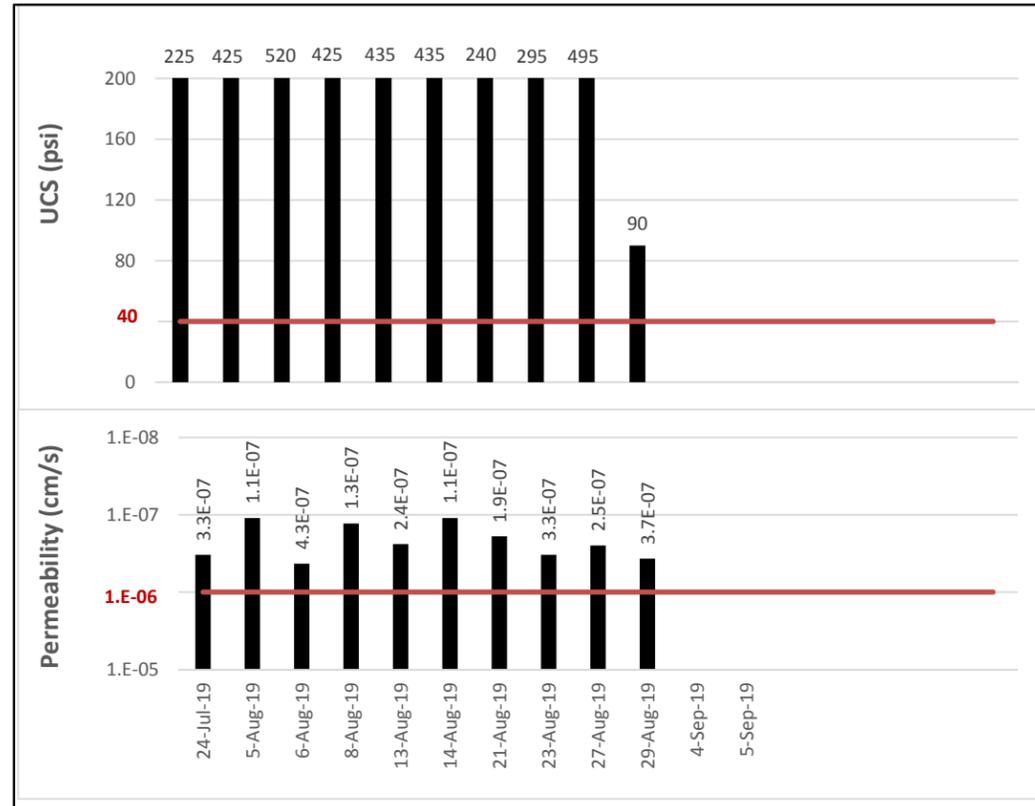
Quanta Resources Corporation Superfund Site, OU1

Data through: 10/1/2019

Tent	Date	Volume (CY)	Mix Design		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
7-1	24-Jul-19	536	2%	6%	225	3.3E-07
7-1	5-Aug-19	494	2%	6%	425	1.1E-07
7-1	6-Aug-19	488	2%	6%	520	4.3E-07
7-1	8-Aug-19	468	2%	6%	425	1.3E-07
7-1	13-Aug-19	502	2%	6%	435	2.4E-07
7-1	14-Aug-19	524	2%	6%	435	1.1E-07
7-1	21-Aug-19	354	2%	6%	240	1.9E-07
7-1	23-Aug-19	323	2%	6%	295	3.3E-07
7-1	27-Aug-19	291	2%	6%	495	2.5E-07
7-1	29-Aug-19	298	2%	6%	90	3.7E-07
7-1	4-Sep-19	335	2%	6%		
7-1	5-Sep-19	282	2%	6%		

data pending

Total CY Mixed: 4894

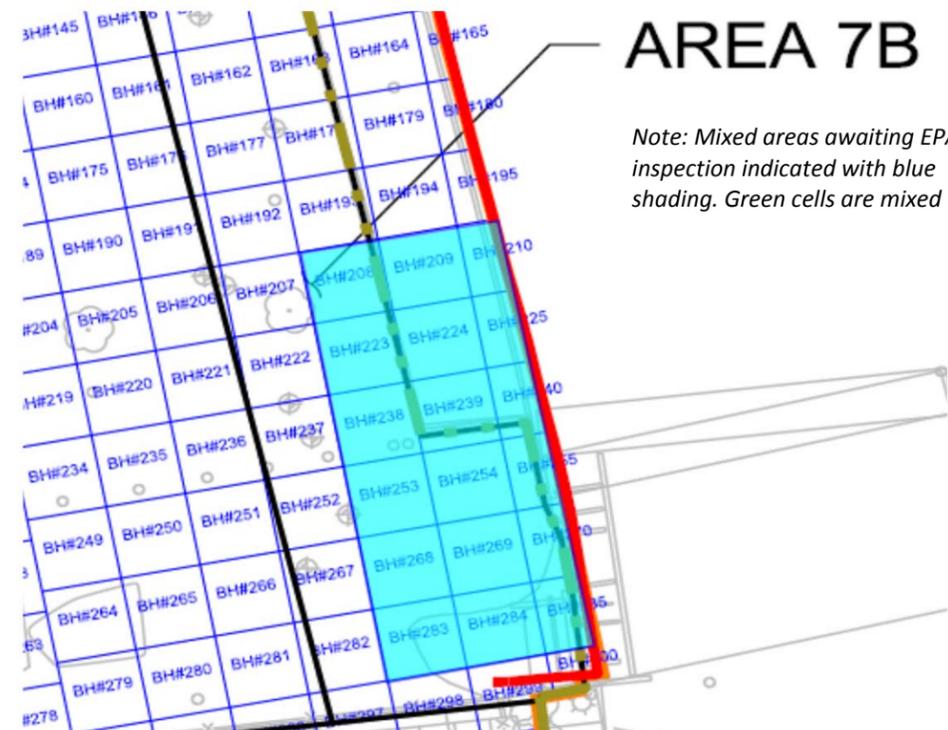


Leaching Reduction by Constituent

Site Constituent	8-Aug-19		
1 Arsenic			
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			

Data Pending

Leaching calculations for each constituent provided in Attachment 5 of the ISS Memo for this Parcel. Boxed sample dates on table above indicate collection of a leaching sample. Constituents with 90+% reduction are shaded green. NE



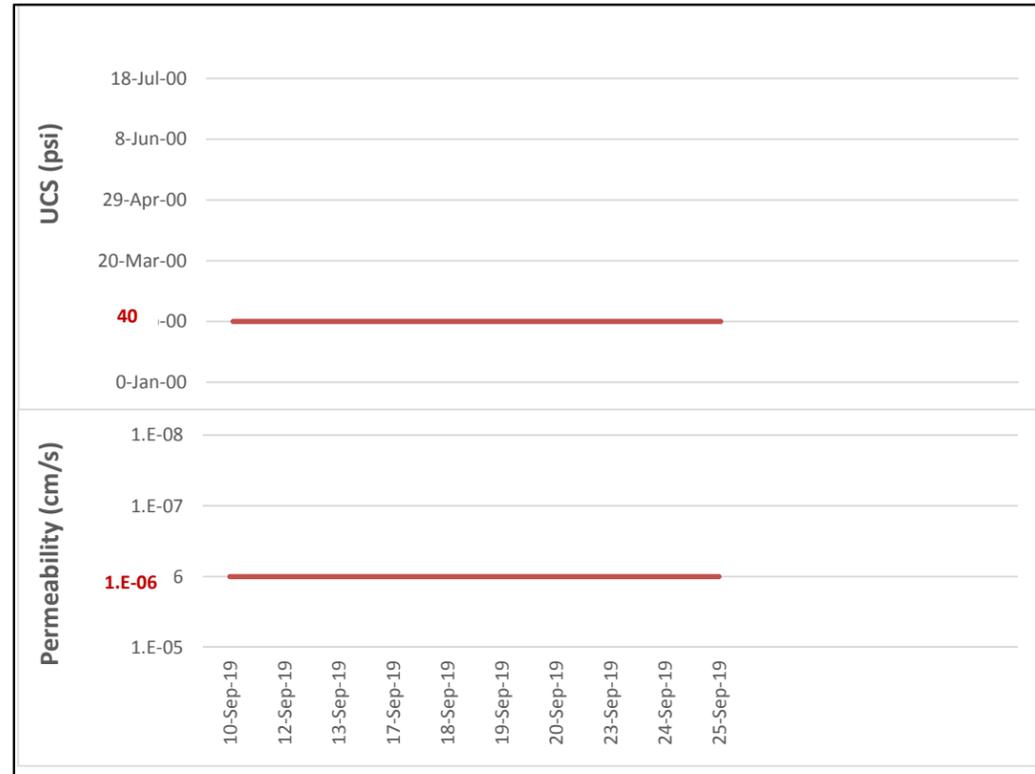
In Situ Solidification/Stabilization Results Dashboard, Leaching Batch 7

Quanta Resources Corporation Superfund Site, OU1

Data through: 10/1/2019

Area	Date	Volume (CY)	Mix Design		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
NT-61	10-Sep-19	288	4%	6%	data pending	
NT-61	12-Sep-19	167	4%	6%		
NT-61	13-Sep-19	166	4%	6%		
NT-61	17-Sep-19	280	4%	6%		
NT-61	18-Sep-19	147	4%	6%		
NT-61	19-Sep-19	343	4%	6%		
NT-61	20-Sep-19	343	4%	6%		
NT-61	23-Sep-19	342	4%	6%		
NT-61	24-Sep-19	179	4%	6%		
NT-61	25-Sep-19	339	4%	6%		

Total CY Mixed: 2595



Leaching Reduction by Constituent

Site Constituent	13-Sep-19		
1 Arsenic			
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			

Data Pending

Constituents Passing

Leaching calculations for each constituent provided in the ISS Memo for this Parcel. Boxed sample dates on table above indicate collection of a leaching sample. Constituents with 90+% reduction are shaded green. NE - Not Evaluated; constituent not detected in baseline sample.



Note: Mixed areas awaiting EPA inspection indicated with blue shading. Green cells are mixed and have been inspected.