

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

May 10, 2018

Subject: Quanta Resources Corporation Superfund Site, Operable Unit 1 (OU1), Edgewater, New Jersey, Progress Report: April 2018

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 April 2018, approximately 86,687 man-hours worked without a lost-time incident
- No recordable incidents occurred during the month of April

Work Completed

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

Figure 1. Bulkhead and ISS Progress through April 2018

ISS Areas shown are approximate and not drawn to scale



OU1 NAPL Recovery

- Gauged accessible sentry wells on April 5, 2018. The vault lid for RW3-3 area was damaged and unable to be safely opened.
- Performed routine maintenance on the RW4-2 pump
- 26 gallons of NAPL were collected from RW4-2 during recovery operations in April
- Baildown testing was conducted at RW4-1 and RW4-2 on April 26, 2018

OU1 General Civil Work

- Continued with odor/dust suppression and stockpile management, as needed
- Continued with site clean-up activities
- Performed backfilling of materials for Area 7B
- Performed overall consolidation of stockpiles and open areas of the site to reduce overall footprint of activities.

OU1 Bulkhead Installation

- Tie-Rod investigation work was performed by MRCE.
- Repairs to the bulkhead were performed which included installing new buddy tie-rods.

OU1 In Situ Solidification/Stabilization

- In April twenty-two (22) cells (3015 CY of material) located within Areas 7A and 8 were mixed. (see attached dashboards for maps).
- Following reduction of open treated areas, performed limited ISS activities within Area 8 and Area 7B.
- Performed site clean-up activities
- Operation of the perimeter misting systems
- Applied Posi-Shell in Area 3A, 7B and Area 8, as needed.

OU1 Vibration and Air Monitoring

- Continued with vibration and movement monitoring
- Continued perimeter air monitoring in accordance with the Perimeter Air Monitoring Plan. Perimeter Air monitoring was increased to include a total of 9 offsite locations and 3 onsite locations. Each location is being sampled for a 10-hour and a 24-hour time period
- Performed onsite flux monitoring using a HAPSITE to determine extent of emissions from source areas.
- No vibrations outside of the project limits were noted during the month of April.
- There was one (1) 15-minute excursion of the TVOC alert level during the month of April.

OU1 Offsite Waste Disposal

- Non-hazardous
 - One (1) 30-CY roll off of NAPL contaminated pipe to the Conestoga Landfill in Morgantown, PA
 - Four (4) 30-CY roll offs of non-hazardous wood material to C.E.C.S, Inc
 - Two (2) 7,800-gallon tanker trucks of non-hazardous liquids to Environmental Recovery Corporation (ERC) in Lancaster, PA
- Hazardous
 - No hazardous materials transported offsite in April

OU1 Annual Vapor Intrusion Investigation

- Submitted the NJDEP and NJDOH data submittals on April 20th associated with the annual vapor intrusion sampling at 163 Old River Road and 103 River Road.
- Submitted the annual Vapor Intrusion Report for the properties at 163 Old River Road and 103 River Road to EPA on April 26.

Site Security, Maintenance, and Inspections

- Completed weekly boom inspections and SWPP inspections on April 5, April 11, and April 20, 2018
- No site security issues for the month of April 2018

Two Week Look Ahead

- Continue twice weekly pumping at RW4-2
- Gauge sentry wells
- Clear and ISS in Area 8
- Test additional odor control techniques which include Odor Boss Misting System, wind walls, and air treatment.
- Host and attend ISS Technology Meeting on May 9 and 10.

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.

The first complete ISS Completion Package was submitted on January 8th for Block 93. As detailed in the report, Honeywell is requesting concurrence from EPA that in-situ stabilization was completed in accordance with the EPA-approved *Remedial Design* and *Remedial Action Work Plan*.

Air Monitoring

- Provided perimeter and offsite air monitoring data daily to EPA.

Other Deliverables and Submittals

- Submitted the Quarterly NAPL Recovery Report for November 2017 through January 2018 to EPA and NJDEP on April 17, 2018.
- Submitted a memorandum detailing the conceptual redevelopment scheme and pile installation methods associated with the Quanta site redevelopment to EPA on April 9. Approval was requested in accordance with the Record of Decision for OU1.

Issues and Corrective Actions

Below section details issues and corrective actions encountered during the reporting period.

Air Monitoring/Emission Controls

Continued monitoring at an extended air monitoring program

Bulkhead Stability

Due to tie-rods being damaged during ISS activities, ISS was halted to allow for reconstruction of the tie rods to support the bulkhead. This required tie-rods to be strengthened using a buddy system. ISS is scheduled to restart in early May.

Stakeholder Communication and Community Involvement

- Submitted the monthly progress report for March on April 10.
- Tracked community concerns and complaints. In April, 19 residential concerns were submitted through the new Quanta call center. Worked with Honeywell and EPA to develop a response and tracking process.
- Hosted and attended biweekly calls on April 8 and April 25 with EPA, NJDEP, USACE, Honeywell, and CH2M
- Provided weekly and as-needed progress updates for email distribution to pier tenants.
- Uploaded daily air monitoring results to www.quantaremediation.com
- Submitted offsite air monitoring results to Honeywell for the website after approval by EPA.
- Provided updated site progress map, construction photos, and laboratory air quality results biweekly for project website. Reviewed website weekly and submitted text changes as needed.

Activities Planned for Next 6 Weeks

- Continue with ISS mixing in Area 8 and Area 7B
- Continue with Site Clean-Up Activities
- Rehabilitate RW3-3 to allow for safe access
- Start summer shutdown activities

Schedule Update and Delays

The overall schedule for the OU1 remediation has been extended because 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.

115 River Road Demolition

The demolition of 115 River Road building is planned to start in mid-Summer 2018. ISS activities will be suspended during the demolition work in order to minimize impact to neighboring properties and the pier building. A revised schedule is being developed and will be provided to EPA.

Percent Complete

Work associated with the OU1 ISS Remedial Action is approximately 52 percent complete. An updated schedule is being prepared based on the items noted above.

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

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)
Neil Kolb (USACE) Michael Johnson (USACE)
John Tsun, Boswell Engineering

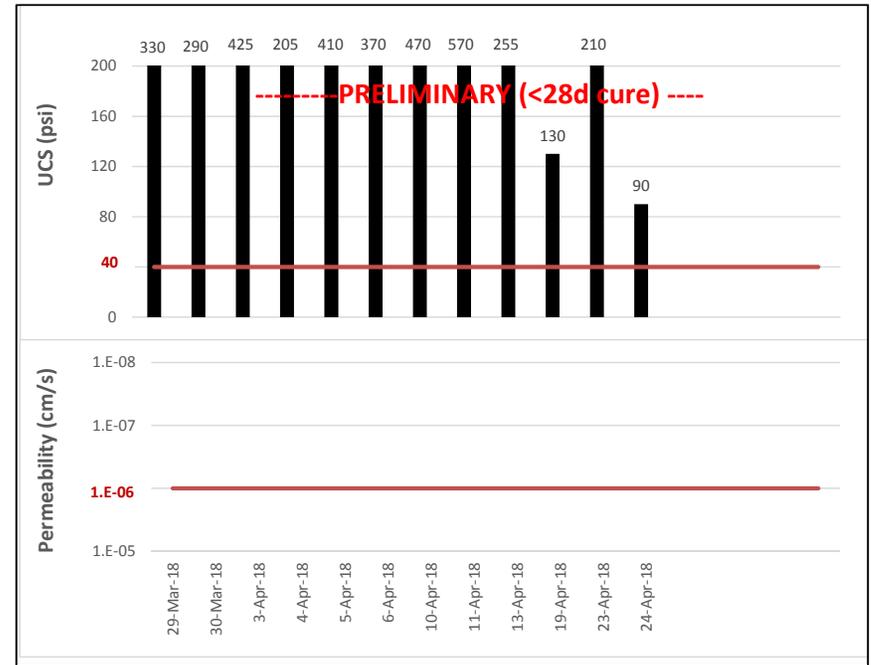
In Situ Solidification/Stabilization Results Dashboard, Areas 7A and 8 (Leaching Batch 6)

Quanta Resources Corporation Superfund Site, OU1

Data through: 5/2/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
8	29-Mar-18	145	2%	6%	MEETS	
8	30-Mar-18	156	2%	6%	MEETS	
8	3-Apr-18	237	2%	6%		
8	4-Apr-18	308	2%	6%		
8	5-Apr-18	264	2%	6%		
8	6-Apr-18	345	2%	6%		data pending
8	10-Apr-18	316	2%	6%		
7A	11-Apr-18	400	2%	6%		
8	13-Apr-18	300	2%	6%		
8	19-Apr-18	329	2%	6%		
8	23-Apr-18	293	2%	6%		
8	24-Apr-18	223	2%	6%		

Total CY Mixed: 3316



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

Sample is Curing

Constituents Passing

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. Constituents with 90+% reduction are shaded green.

AREA 8

AREA 7A



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

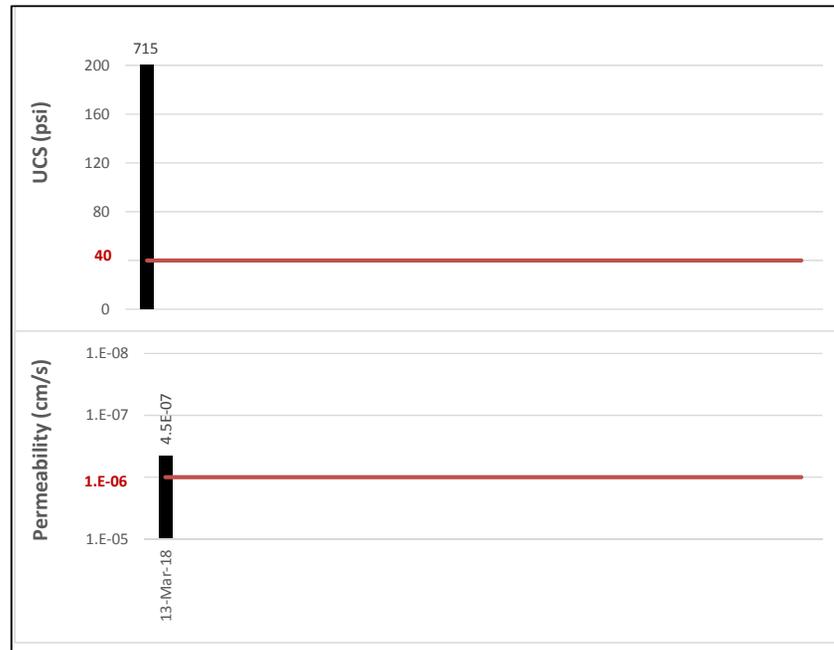
In Situ Solidification/Stabilization Results Dashboard, Area 7B Pilot

Quanta Resources Corporation Superfund Site, OU1

Data through: 5/2/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥ 40 psi)	Permeability ($\leq 1E-6$ cm/s)
			Cement	Slag		
7B	13-Mar-18	283	4%	6%	MEETS	MEETS

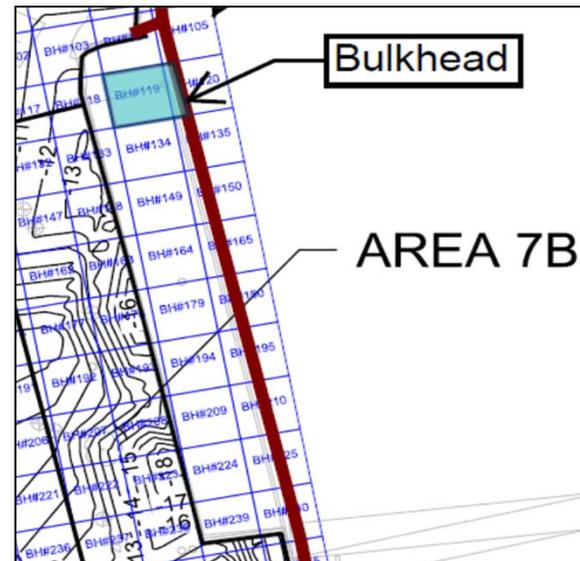
Total CY Mixed: 283



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

Analysis in progress

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. Constituents with 90+% reduction are shaded green.



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

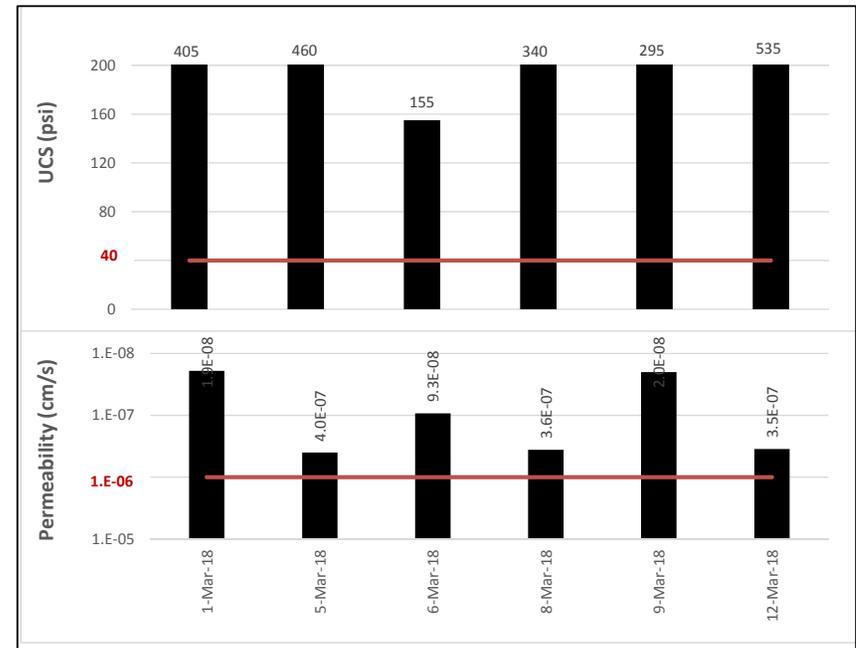
In Situ Solidification/Stabilization Results Dashboard, Area 3C (Leaching Batch 5)

Quanta Resources Corporation Superfund Site, OU1

Data through: 5/2/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥ 40 psi)	Permeability ($\leq 1E-6$ cm/s)
			Cement	Slag		
3C	1-Mar-18	652	2%	6%	MEETS	MEETS
3C	5-Mar-18	466	2%	6%	MEETS	MEETS
3C	6-Mar-18	448	2%	6%	MEETS	MEETS
3C	8-Mar-18	325	2%	6%	MEETS	MEETS
3C	9-Mar-18	348	2%	6%	MEETS	MEETS
3C	12-Mar-18	675	2%	6%	MEETS	MEETS

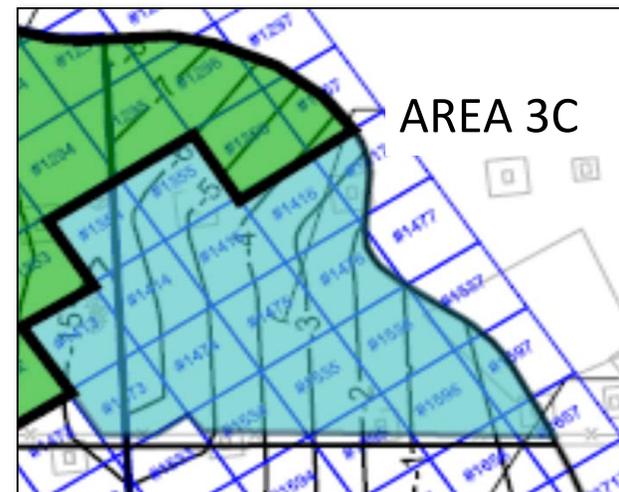
Total CY Mixed: 2914



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

Analysis in Progress

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. Constituents with 90+% reduction are shaded green.



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

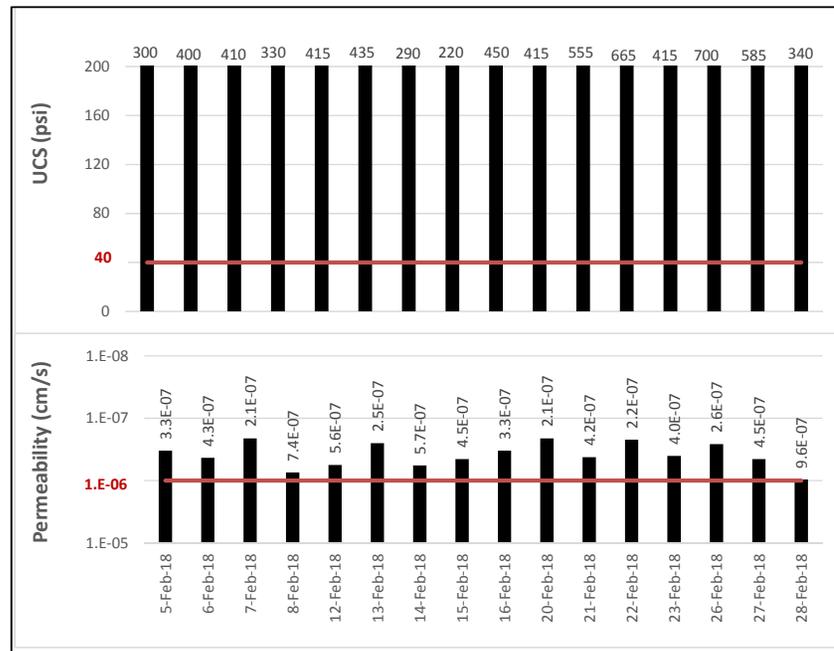
In Situ Solidification/Stabilization Results Dashboard, Area 3A (Leaching Batch 4)

Quanta Resources Corporation Superfund Site, OU1

Data through: 5/2/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
3A	5-Feb-18	527	2%	6%	MEETS	MEETS
3A	6-Feb-18	178	2%	6%	MEETS	MEETS
3A	7-Feb-18	565	2%	6%	MEETS	MEETS
3A	8-Feb-18	443	2%	6%	MEETS	MEETS
3A	12-Feb-18	296	2%	6%	MEETS	MEETS
3A	13-Feb-18	360	2%	6%	MEETS	MEETS
3A	14-Feb-18	333	2%	6%	MEETS	MEETS
3A	15-Feb-18	569	2%	6%	MEETS	MEETS
3A	16-Feb-18	314	2%	6%	MEETS	MEETS
3A	20-Feb-18	482	2%	6%	MEETS	MEETS
3A	21-Feb-18	133	2%	6%	MEETS	MEETS
3A	22-Feb-18	397	2%	6%	MEETS	MEETS
3A	23-Feb-18	511	2%	6%	MEETS	MEETS
3A	26-Feb-18	532	2%	6%	MEETS	MEETS
3A	27-Feb-18	773	2%	6%	MEETS	MEETS
3A	28-Feb-18	540	2%	6%	MEETS	MEETS

Total CY Mixed: 6953

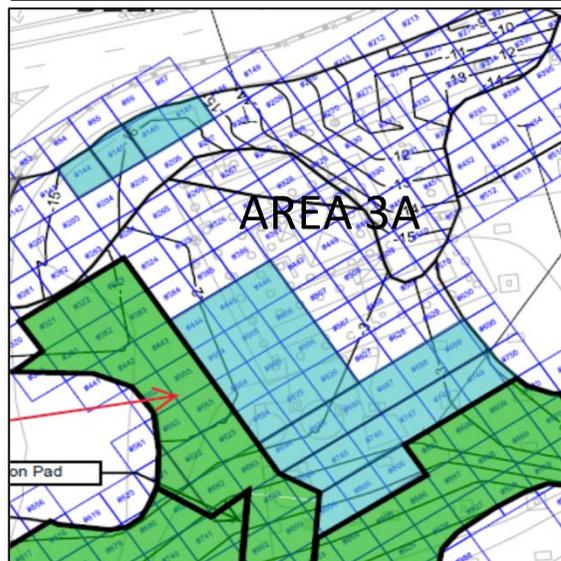


Leaching Reduction by Constituent			
Site Constituent		Site Constituent	
1 Arsenic		12 Benzo(b)fluoranthene	
2 Benzene		13 Benzo(g,h,i)perylene	
3 Toluene		14 Benzo(k)fluoranthene	
4 Ethylbenzene		15 Chrysene	
5 Total Xylenes		16 Benzo(a,h)anthracene	
6 Naphthalene		17 Fluoranthene	
7 Acenaphthene		18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

Analysis in Progress

Constituents Passing

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. Constituents with 90+% reduction are shaded green.



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

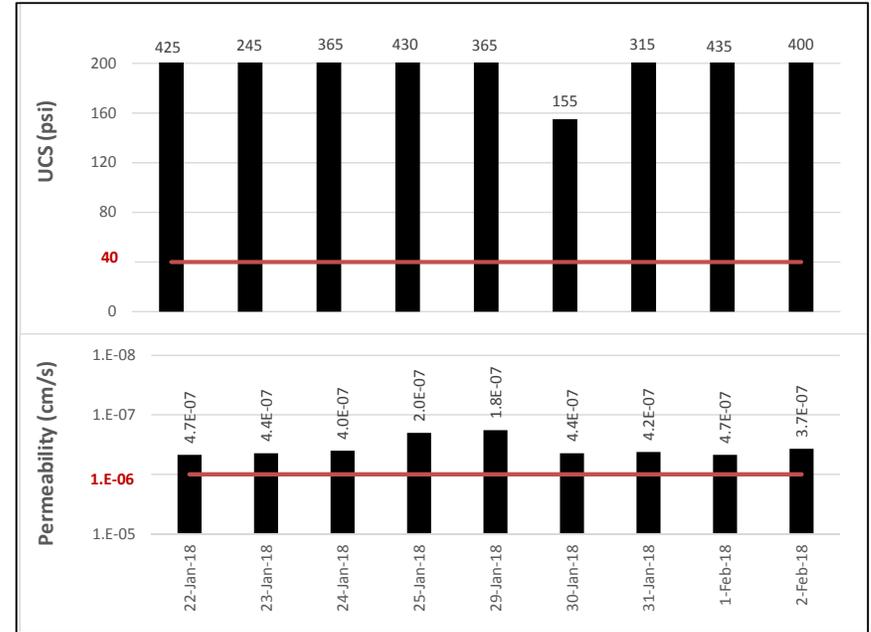
In Situ Solidification/Stabilization Results Dashboard, Area 3A (Leaching Batch 3)

Quanta Resources Corporation Superfund Site, OU1

Data through: 5/2/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
3A	22-Jan-18	452	2%	6%	MEETS	MEETS
3A	23-Jan-18	574	2%	6%	MEETS	MEETS
3A	24-Jan-18	585	2%	6%	MEETS	MEETS
3A	25-Jan-18	603	2%	6%	MEETS	MEETS
3A	29-Jan-18	725	2%	6%	MEETS	MEETS
3A	30-Jan-18	434	2%	6%	MEETS	MEETS
3A	31-Jan-18	585	2%	6%	MEETS	MEETS
3A	1-Feb-18	572	2%	6%	MEETS	MEETS
3A	2-Feb-18	399	2%	6%	MEETS	MEETS

Total CY Mixed: **4929**



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

Analysis in progress

Constituents Passing

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. Constituents with 90+% reduction are shaded green.

