

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

June 1, 2018

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

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 May 2018, approximately 92,600 labor hours worked without a lost-time incident.
- No recordable incidents occurred during the month of May.

Work Completed

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

OU1 NAPL Recovery

- Gauged accessible sentry wells on May 29, 2018.
- Performed routine maintenance on the RW4-2 pump
- 6.5 gallons of NAPL were collected from RW4-2 during the contingency baildown test on May 11, 2018. The contingency baildown test was performed due to anomalous manual depth-to-NAPL during the initial baildown test.
- Biweekly pumping was not performed at RW4-2 in May to allow NAPL recovery from the April 26, 2018 initial Q2 2018 NAPL baildown test attempt and the contingency, May 11, 2018 baildown test.

OU1 General Civil Work

- Continued with odor/dust suppression and stockpile management, as needed

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- Continued with site cleanup activities
- Continued with installation of Pier Building utilities
- Performed overall consolidation of stockpiles and open areas of the site to reduce overall footprint of activities

Figure 1. Bulkhead and In Situ Solidification/Stabilization (ISS) Progress through May 2018



ISS areas shown are approximate and not drawn to scale.

OU1 Bulkhead Installation

- Installation of additional buddy tie-rods completed to stabilize the bulkhead wall.
- Work area clean-up and preparation for suspension of ISS.

OU1 ISS

- In May, a total of 7 cells were mixed (690 cubic yards [yd³] of material) within Areas 7B and 8; see attached dashboards for maps
- Following reduction of open treated areas, and the required bulkhead installation of the buddy tie-rods, only limited ISS activities were performed during the month of May within Areas 8 and 7B.
- Continued site cleanup activities and started suspension activities.
- Operated the perimeter misting systems
- Tested the Odor Boss Misting System by BossTek for Odor Control. Constructed wind wall for testing.
- Applied Posi-Shell in Areas 3A, 7B, and 8, as needed



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OU1 Vibration and Air Monitoring

- Continued with vibration and movement monitoring
- Continued perimeter air monitoring in accordance with the Perimeter Air Monitoring Plan and the increased sampling plan which includes a total of nine offsite locations and three onsite locations. Two locations from Independence Harbor were adjusted to The Metropolitan and The Promenade on May 10th. Each location is being sampled for 10-hour and a 24-hour time periods
- Observed no vibrations outside the project limits during May.

OU1 Offsite Waste Disposal

- Nonhazardous
 - Two 20-yd³ roll-offs of asphalt to C.E.C.S, Inc of Columbia, SC
 - One 30-yd³ roll-off of asphalt to EverGreen Recycling Solutions in Newark, NJ
 - One 30-yd³ roll-off of treated wood material to C.E.C.S, Inc of Columbia, SC
- No hazardous materials transported offsite in May

Site Security, Maintenance, and Inspections

- Completed weekly boom inspections and SWPP inspections on May 3, May 10, May 17, May 24, and May 31
- No site security issues for the month of May

Two-Week Look-Ahead

- Continue twice weekly pumping at RW4-2
- Gauge sentry wells
- Complete summer-time suspension activities to clean up the site for the period of time when no work will be ongoing.
- Cover Area 3A, 7B and 8 with demarcation fabric and DGA for the summer.

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.



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The first ISS Completion Package was submitted on January 8 for Block 93. As detailed in the report, Honeywell is requesting concurrence from EPA that ISS 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

- Provided a proposed plan for additional actions to be field tested for odor control techniques on May 7th. These activities were halted due to the summer time suspension.
- Submitted a proposed air sampling approach during summer time suspension of activities on May 18th.

Issues and Corrective Actions

Air Monitoring/Emission Controls

Continued monitoring at an extended air monitoring program.

Summer Time Suspension

Suspension of the remediation at the site occurred on May 18th to prepare for the demolition of the 115 River Road building. Remediation is expected to restart in Fall 2018.

Stakeholder Communication and Community Involvement

- Held an ISS Technology Visit on May 9 and 10 to show local EPA staff ISS in action.
- Prepared for and attended a public meeting on May 22.
- Hosted and attended a call on May 23 with EPA, NJDEP, USACE, Honeywell, and Jacobs.
- Provided weekly and as-needed progress updates for email distribution to pier tenants
- Tracked community concerns and complaints. In May, a total of 25 residential concerns were submitted through the new Quanta call center. Worked with EPA to track calls and responses
- Uploaded daily air monitoring results to www.quantaremediation.com
- Submitted offsite air monitoring results for the website after approval by EPA. Developed updated maps and website text to reflect changes in offsite air monitoring program.
- 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
- Submitted the monthly progress report for April on May 10.

Activities Planned for Next 6 Weeks

- Complete the site cleanup and summer suspension activities



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- Rehabilitate RW3-3 to allow for safe access
- Begin planning for the demolition of the 115 River Road building which will include performing the hazardous waste survey and preparing for asbestos abatement.

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 in prior status reports. As of June, remediation work has been suspended and will plan to be remobilized in late Summer or Fall 2018. Prior to remobilization for remediation activities, an updated schedule will be provided.

Percent Complete

Work associated with the OU1 ISS Remedial Action is approximately 53 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,

Stephen J. Zarlinski
Project Manager

Enclosures: Attachment A, ISS Results Dashboards

Copies to:

Clay Monroe (EPA)
Steve Coladonato (Honeywell)
Erica Bergman (NJDEP)
Helen Fahy (Fahy Associates)
Neil Ravensbergen (USACE)
Frank Rossi (Boswell)
Neil Kolb (USACE)
John Tsun (Bosswell Engineering)

Rich Puvogel (EPA)
John Mojka (Honeywell)
Greg Franz (Borough of Edgewater)
Jose Sananes (Ramboll)
Rich Gajdek (USACE)
Richard Ho (EPA)
Michael Johnson (USACE)



Attachment A: ISS Results Dashboards

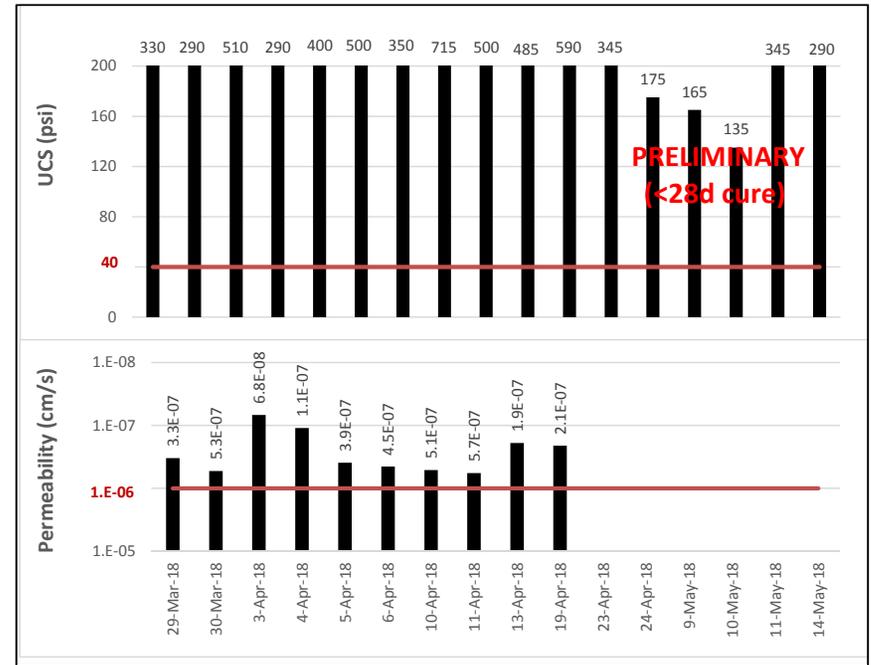
In Situ Solidification/Stabilization Results Dashboard, Areas 7A and 8 (Leaching Batch 6)

Quanta Resources Corporation Superfund Site, OU1

Data through: 5/31/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
8	29-Mar-18	145	2%	6%	MEETS	MEETS
8	30-Mar-18	156	2%	6%	MEETS	MEETS
8	3-Apr-18	237	2%	6%	MEETS	MEETS
8	4-Apr-18	308	2%	6%	MEETS	MEETS
8	5-Apr-18	264	2%	6%	MEETS	MEETS
8	6-Apr-18	345	2%	6%	MEETS	MEETS
8	10-Apr-18	316	2%	6%	MEETS	MEETS
7A	11-Apr-18	400	2%	6%	MEETS	MEETS
8	13-Apr-18	300	2%	6%	MEETS	MEETS
8	19-Apr-18	329	2%	6%	MEETS	MEETS
8	23-Apr-18	293	2%	6%	MEETS	
8	24-Apr-18	223	2%	6%	MEETS	
8	9-May-18	49	2%	6%		
8	10-May-18	216	2%	6%		
8	11-May-18	225	2%	6%		

Total CY Mixed: 3806



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

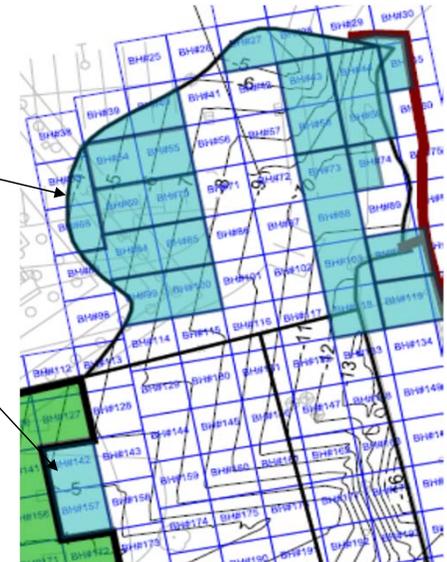
Constituents Passing

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.

AREA 8

AREA 7A

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



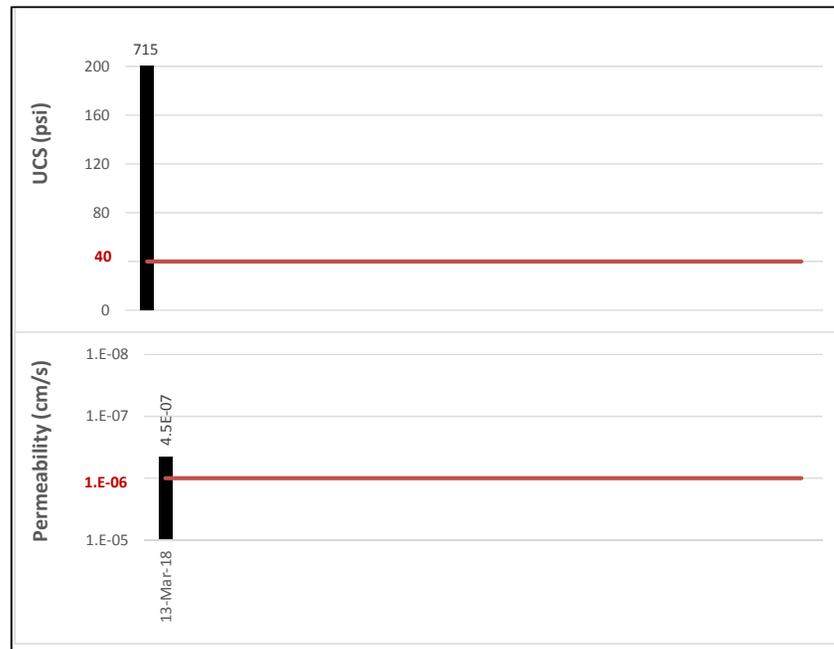
In Situ Solidification/Stabilization Results Dashboard, Area 7B Pilot

Quanta Resources Corporation Superfund Site, OU1

Data through: 5/31/2018

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

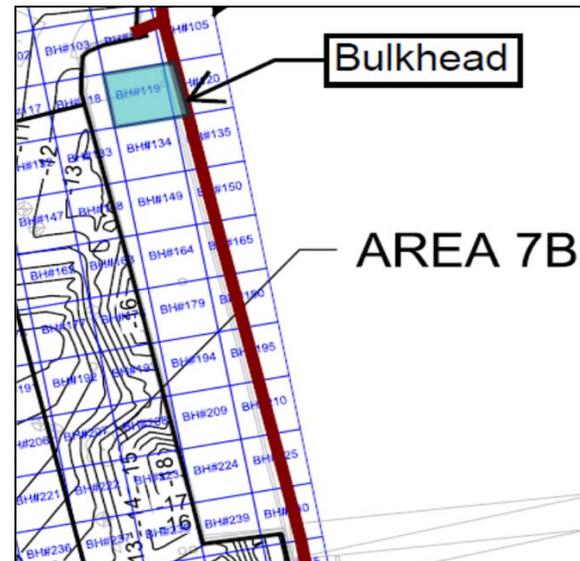
Total CY Mixed: **283**



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.

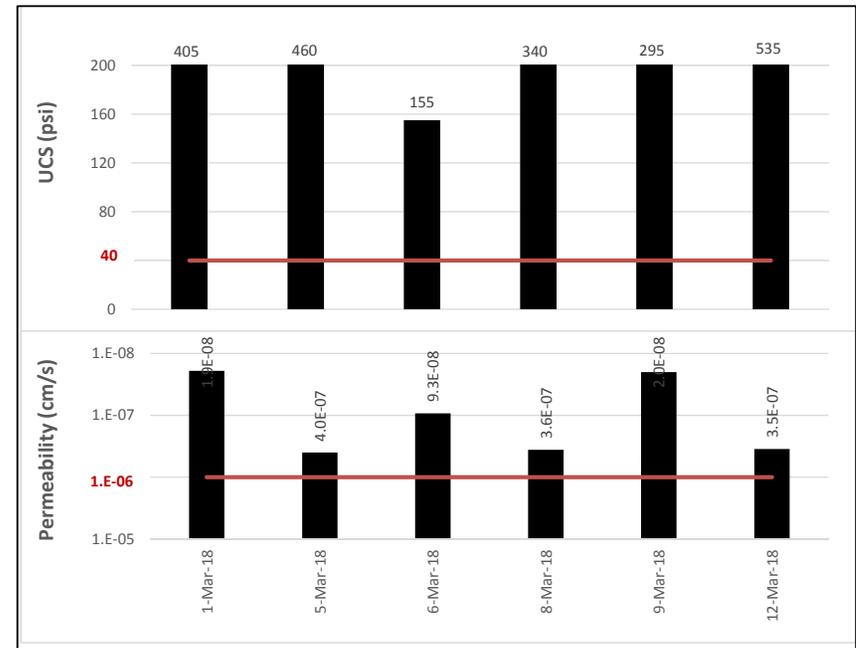
In Situ Solidification/Stabilization Results Dashboard, Area 3C (Leaching Batch 5)

Quanta Resources Corporation Superfund Site, OU1

Data through: 5/31/2018

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

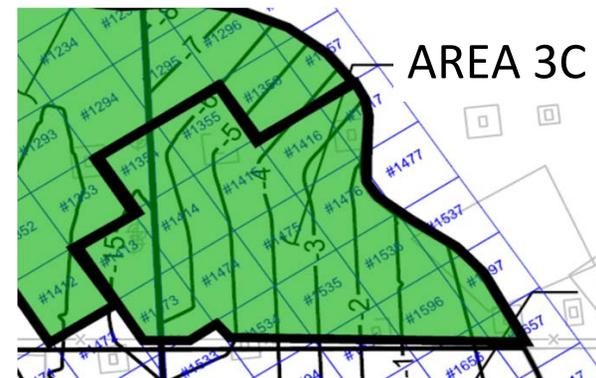


Leaching Reduction by Constituent			
Site Constituent		Site Constituent	
1 Arsenic		12 Benzo(b)fluoranthene	
2 Benzene		13 Benzo(g,h,i)perylene	
3 Toluene		14 Benzo(k)fluoranthene	
4 Ethylbenzene		15 Chrysene	
5 Total Xylenes		16 Benzo(a,h)anthracene	
6 Naphthalene		17 Fluoranthene	
7 Acenaphthene		18 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

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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.



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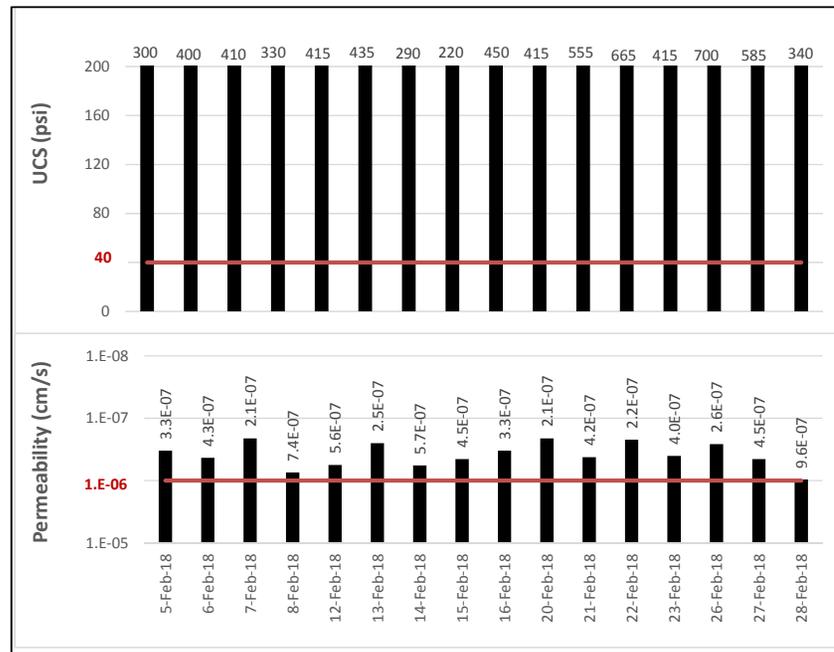
In Situ Solidification/Stabilization Results Dashboard, Area 3A (Leaching Batch 4)

Quanta Resources Corporation Superfund Site, OU1

Data through: 5/31/2018

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

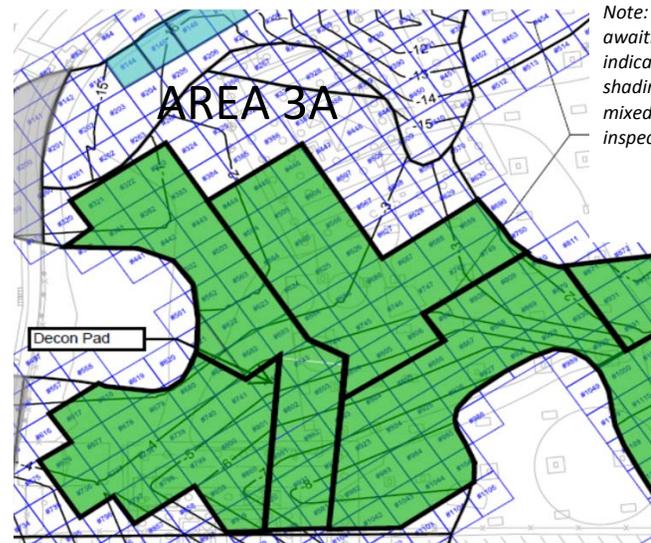


Leaching Reduction by Constituent			
Site Constituent		Site Constituent	
1 Arsenic		12 Benzo(b)fluoranthene	
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8 Acenaphthylene		19 Indeno(1,2,3-cd)pyrene	
9 Anthracene		20 Phenanthrene	
10 Benzo(a)anthracene		21 Pyrene	
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Analysis 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.



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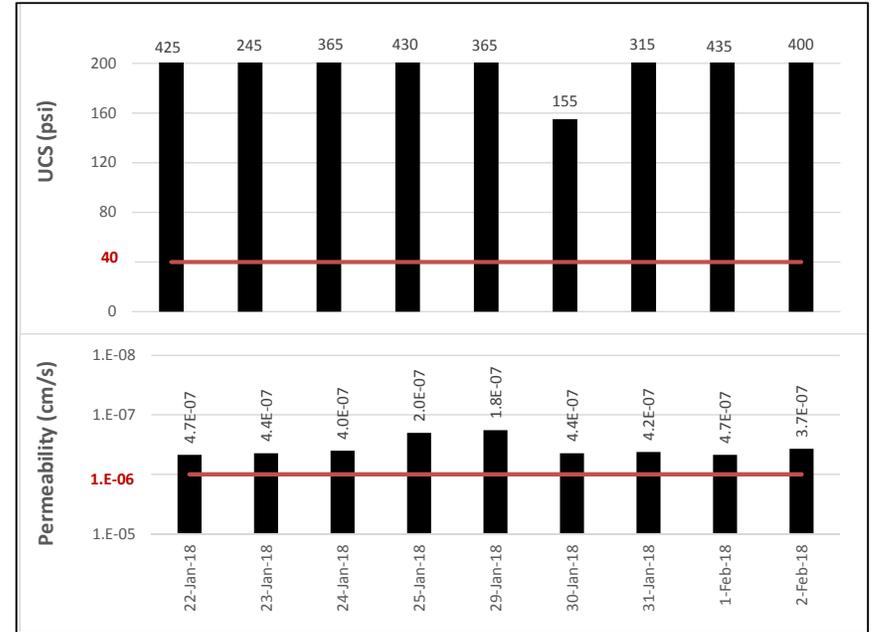
In Situ Solidification/Stabilization Results Dashboard, Area 3A (Leaching Batch 3)

Quanta Resources Corporation Superfund Site, OU1

Data through: 5/31/2018

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**

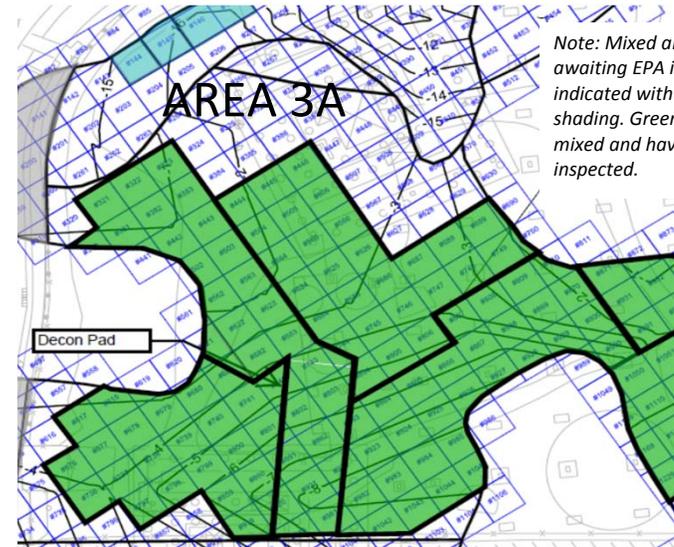


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