

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 10, 2018

Subject: Quanta Resources Corporation Superfund Site, Operable Unit 1 (OU1), Edgewater, New Jersey, Progress Report: September 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 September 2018, approximately 112,087 labor hours worked without a lost-time incident.
- No recordable incidents occurred during the month of September.

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

- Continued with installation of utilities for the pier building to allow for ISS to occur upon remobilization after the ISS suspension.

OU1 ISS

- No ISS work activities occurred during reporting period.

OU1 Bulkhead Installation

- No work activities occurred during reporting period.

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



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

- Hazardous
 - Two (2) 55-gallon drums of NAPL stained PPE to Cycle Chem in Lewisburg, PA.
 - Three (3) 55-gallon drums of NAPL to Veolia in Flanders, NJ.

OU1 NAPL Recovery

- Gauged accessible sentry wells on September 28, 2018.
- Performed routine maintenance on the RW4-2 pump.
- 56 gallons of NAPL were collected from RW4-2 during recovery operations in September.
- Performed baildown tests at RW4-1 and RW4-2.



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Site Security, Maintenance, and Inspections

- Completed weekly boom inspections and SWPPP inspections on September 5, September 12, September 21, and September 26.
- Adjusted the hard boom on September 7 to incorporate sheening observed outside the boom. Debris was moved using a forklift and the hard boom was adjusted south to the edge of the 115 River Road Pier Building.
- Replaced absorbent boom on September 10
- One site security issue during the reporting period. A tripod used to hold the dust monitor was stolen over the weekend.

Two-Week Look-Ahead

- Continue daily pumping at RW4-2; perform baildown testing at RW4-1 and RW4-2; gauge sentry wells.
- All other remediation activities have been suspended.

Data and Submittals

ISS Compliance Data Summary

All required samples to demonstrate ISS compliance met the specified performance criteria for unconfined compressive strength and permeability. For leaching reduction criteria, data was provided to EPA on September 24 detailing that all samples met the performance criteria for except for two samples. One sample was attributed to having the baseline concentrations being much lower than historic data and baseline data from adjacent locations. Also, subsequent samples from that Batch 3 met or exceeded the 90 percent leaching reduction goal. Because one sample collected from Batch 4 did not meet the ROD requirements, the two additional samples on hold will be analyzed in accordance the Remedial Design. It is important to note that 8 out of 15 constituents passed, with total BTEX reduced by 99% and total PAHs by 92%, and the constituents that were reduced by less than 90% make up only 2.5% of the total mass of the constituents. Dashboards of these results are provided as Attachments 1.

Air Monitoring

- Provided perimeter and offsite air monitoring data when received (typically daily) to EPA.

Other Deliverables and Submittals

- None

Issues and Corrective Actions

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 late 2018/Early 2019.

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Stakeholder Communication and Community Involvement

- Submitted the monthly progress report for August on September 8.
- Hosted and attended monthly calls on September 12 with EPA, NJDEP, USACE, Honeywell, and CH2M
- Tracked community concerns and complaints. In September, 3 residential concerns were submitted through the Quanta call center about odor coming from the river. Four complaints were also submitted by email about water being off, a hose spraying oil, and dirt on a vehicle. Worked with Honeywell and EPA to track calls and responses.
- Provided weekly and as-needed progress updates for email distribution to pier tenants.
- Uploaded air monitoring results to www.quantaremediation.com

Activities Planned for Next 6 Weeks

- Continue with NAPL recovery operations.
- No other activities associated with the remedial action are planned for October.

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 September, remediation work has been suspended and will plan to be remobilized in late 2018/early 2019. A proposed updated schedule was provided as part of the Remedial Action Work Plan Addendum submitted on August 22 to EPA.

Percent Complete

Work associated with the OU1 ISS Remedial Action is approximately 53 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

Enclosures:

- In Situ Solidification/Stabilization Results Dashboard, Area 3A/3C (Leaching Batch 3)
- In Situ Solidification/Stabilization Results Dashboard, Areas 7A and 8 (Leaching Batch 4)

Copies to:



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

Rich Puvogel (EPA)
John Mojka (Honeywell)
Greg Franz (Borough of Edgewater)
Tim Johnson (Anchor QEA)
Rich Gajdek (USACE)
Neil Kolb (USACE) Michael Johnson (USACE)



Attachment 1 – ISS Compliance Data Dashboards

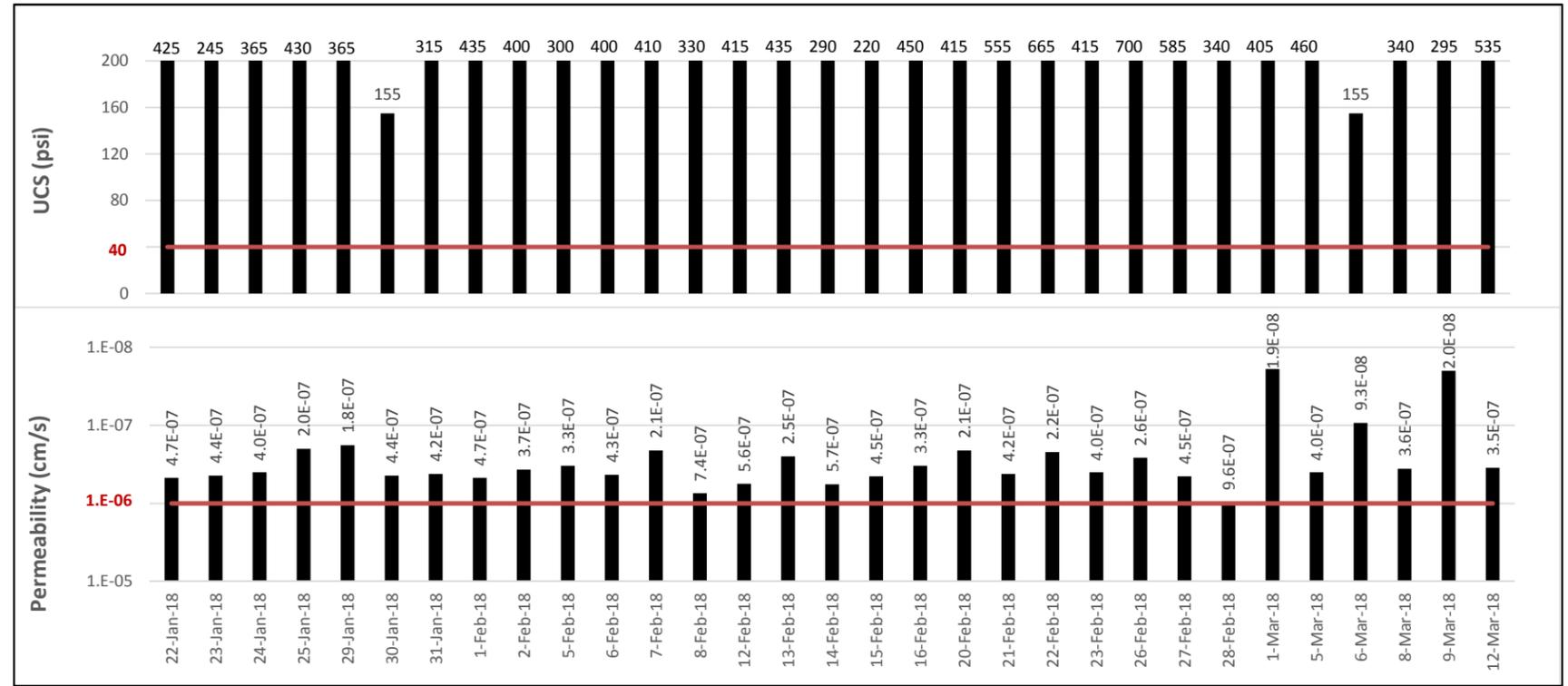
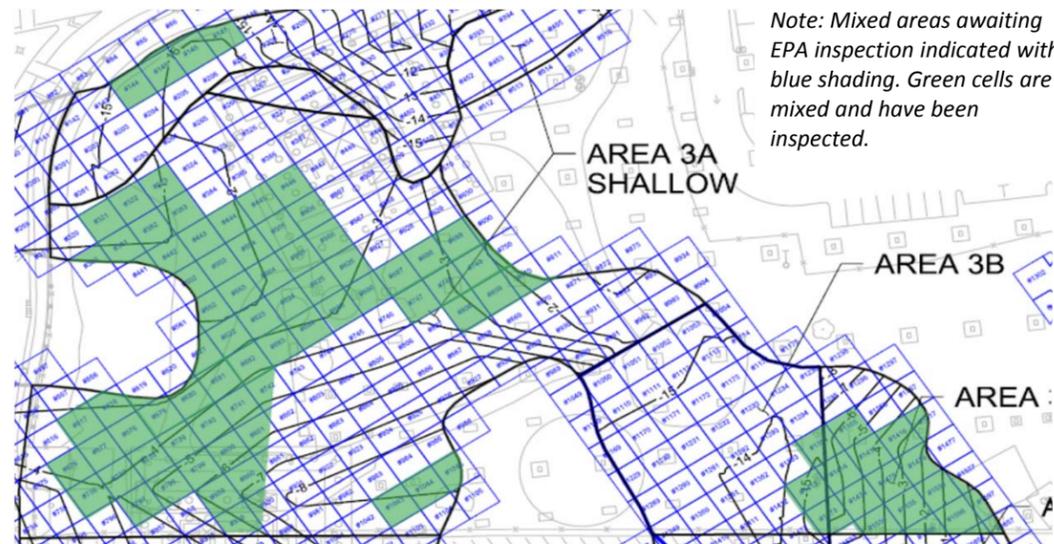
In Situ Solidification/Stabilization Results Dashboard, Area 3A/3C (Leaching Batch 3)

Quanta Resources Corporation Superfund Site, OU1

Data through: 9/7/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
3A	22-Jan-18	467	2%	6%	MEETS	MEETS
3A	23-Jan-18	386	2%	6%	MEETS	MEETS
3A	24-Jan-18	573	2%	6%	MEETS	MEETS
3A	25-Jan-18	603	2%	6%	MEETS	MEETS
3A	29-Jan-18	740	2%	6%	MEETS	MEETS
3A	30-Jan-18	445	2%	6%	MEETS	MEETS
3A	31-Jan-18	580	2%	6%	MEETS	MEETS
3A	1-Feb-18	584	2%	6%	MEETS	MEETS
3A	2-Feb-18	393	2%	6%	MEETS	MEETS
3A	5-Feb-18	542	2%	6%	MEETS	MEETS
3A	6-Feb-18	175	2%	6%	MEETS	MEETS
3A	7-Feb-18	579	2%	6%	MEETS	MEETS
3A	8-Feb-18	444	2%	6%	MEETS	MEETS
3A	12-Feb-18	293	2%	6%	MEETS	MEETS
3A	13-Feb-18	357	2%	6%	MEETS	MEETS
3A	14-Feb-18	325	2%	6%	MEETS	MEETS
3A	15-Feb-18	558	2%	6%	MEETS	MEETS
3A	16-Feb-18	453	2%	6%	MEETS	MEETS
3A	20-Feb-18	487	2%	6%	MEETS	MEETS
3A	21-Feb-18	136	2%	6%	MEETS	MEETS
3A	22-Feb-18	398	2%	6%	MEETS	MEETS
3A	23-Feb-18	498	2%	6%	MEETS	MEETS
3A	26-Feb-18	505	2%	6%	MEETS	MEETS
3A	27-Feb-18	731	2%	6%	MEETS	MEETS
3A	28-Feb-18	519	2%	6%	MEETS	MEETS
3C	1-Mar-18	599	2%	6%	MEETS	MEETS
3C	5-Mar-18	469	2%	6%	MEETS	MEETS
3C	6-Mar-18	394	2%	6%	MEETS	MEETS
3C	8-Mar-18	317	2%	6%	MEETS	MEETS
3C	9-Mar-18	355	2%	6%	MEETS	MEETS
3C	12-Mar-18	670	2%	6%	MEETS	MEETS

Total CY Mixed **14,250**



Leaching Reduction by Constituent

Site Constituent	22-Jan-18	6-Feb-18	26-Feb-18	1-Mar-18
1 Arsenic	99%	99%	Sample on Hold	99%
2 Benzene	99%	100%		100%
3 Toluene	99%	100%		100%
4 Ethylbenzene	99%	100%		100%
5 Total Xylenes	99%	100%		100%
6 Naphthalene	96%	97%		0%
7 Acenaphthene	94%	95%		95%
8 Acenaphthylene	95%	94%		90%
9 Anthracene	92%	93%		86%
10 Benzo(a)anthracene	63%	87%		79%
11 Benzo(a)pyrene	79%	95%		64%
12 Benzo(b)fluoranthene	84%	92%		70%
13 Benzo(g,h,i)perylene	NE	93%		NE
14 Benzo(k)fluoranthene	NE	89%		NE
15 Chrysene	48%	80%		74%
16 Dibenz(a,h)anthracene	NE	NE		NE
17 Fluoranthene	0%	87%		55%
18 Fluorene	91%	93%		93%
19 Indeno(1,2,3-cd)pyrene	NE	89%		NE
20 Phenanthrene	85%	91%		89%
21 Pyrene	3%	54%		55%
Constituents Passing	10/17	14/20		8/17

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 leaching sample for Batch 3 collected January 22, 2018. Boxed sample date on table above indicates collection of a leaching sample. Constituents with 90+% reduction are shaded green.

In Situ Solidification/Stabilization Results Dashboard, Areas 7A and 8 (Leaching Batch 4)

Quanta Resources Corporation Superfund Site, OU1

Data through: 9/7/2018

Area	Date	Volume (CY)	Actual Mix		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
8	29-Mar-18	131	2%	6%	MEETS	MEETS
8	30-Mar-18	160	2%	6%	MEETS	MEETS
8	3-Apr-18	252	2%	6%	MEETS	MEETS
8	4-Apr-18	310	2%	6%	MEETS	MEETS
8	5-Apr-18	264	2%	6%	MEETS	MEETS
8	6-Apr-18	357	2%	6%	MEETS	MEETS
8	10-Apr-18	327	2%	6%	MEETS	MEETS
7A	12-Apr-18	413	2%	6%	MEETS	MEETS
8	13-Apr-18	316	2%	6%	MEETS	MEETS
8	19-Apr-18	353	2%	6%	MEETS	MEETS
8	23-Apr-18	314	2%	6%	MEETS	MEETS
8	24-Apr-18	222	2%	6%	MEETS	MEETS
8	9-May-18	53	2%	6%	MEETS	MEETS
8	10-May-18	236	2%	6%	MEETS	MEETS
8	11-May-18	242	2%	6%	MEETS	MEETS
8	14-May-18	138	2%	6%	MEETS	MEETS
8	16-May-18	69	2%	6%	MEETS	MEETS

Total CY Mixed: 4156

Leaching Reduction by Constituent

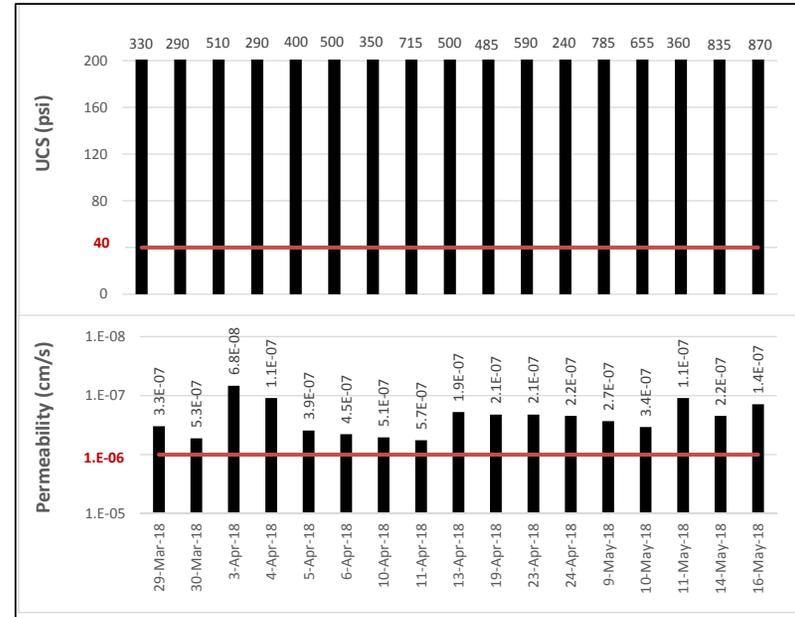
Site Constituent	29-Mar-18	12-Apr-18	13-Apr-18
1 Arsenic	100%		
2 Benzene	99%		
3 Toluene	99%		
4 Ethylbenzene	99%		
5 Total Xylenes	99%		
6 Naphthalene	92%		
7 Acenaphthene	82%		
8 Acenaphthylene	95%		
9 Anthracene	80%		
10 Benzo(a)anthracene	77%		
11 Benzo(a)pyrene	NE		
12 Benzo(b)fluoranthene	NE		
13 Benzo(g,h,i)perylene	NE		
14 Benzo(k)fluoranthene	NE		
15 Chrysene	60%		
16 Dibenz(a,h)anthracene	NE		
17 Fluoranthene	65%		
18 Fluorene	82%		
19 Indeno(1,2,3-cd)pyrene	NE		
20 Phenanthrene	72%		
21 Pyrene	68%		

Constituents Passing 7/15

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.

Analysis in Progress

Analysis in Progress



AREA 8

AREA 7A



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