

December 10, 2019

Attention: Mr. Shane Nelson, RPM/OSC
U.S. Environmental Protection Agency – Region 2
290 Broadway, Floor 19
New York, NY 10007-1866

Subject: Quanta Resources Corporation Superfund Site, Operable Unit 1 (OU1), Edgewater, New Jersey, Progress Report: November 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 November 24, 2019, approximately 197,421 labor hours worked.

Work Completed

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

OU1 General Civil Work

- Supported site contractor operations and continued general site maintenance activities.
- Continued realignment of onsite utilities to accommodate future ISS activities.
- Assisted with final restoration activities at Segment A of the bulkhead.
- Assisted with temporary restoration activities at Segment B of the bulkhead.

OU1 ISS

- Managed and maintained the soil stockpile in Area 7A.
- Continued debris removal and ISS activities at Tent 3-2 located in ISS Area 3A (northwest corner of Site). Nine (9) cells (1,626 CY of material) were treated.
- Completed debris removal and ISS activities at Tent 7-1 located in ISS Area 7B (adjacent to the bulkhead). Five (5) cells (1,225 CY of material) were treated.



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- Completed debris removal and ISS activities in Area 8 outside of tents (north east corner of the site). Fourteen (14) cells (1,530 CY of material) were treated.

OU1 Bulkhead Installation

- Completed installation of bedding stone and rip-rap in Segment A of the bulkhead in support of final restoration activities in this area.
- Completed installation of whaler and tie-rod stubs in Segment B.
- Began installation of permanent deadmen/tie-rod system in Segments D and E of the bulkhead inside Tent 7-1 located in ISS Area 7B (adjacent to the bulkhead).

OU1 Vibration and Air Monitoring

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

OU1 Offsite Waste Disposal

- Non-Hazardous
 - Eleven (11) 30-cy roll-offs of wood debris to C.E.C.S in Sparta, NJ.
 - One (1) 20-cy roll-off of PPE debris to Environmental Recovery Corporation in Lancaster, PA.
- Hazardous
 - Three (3) 55-gallon drums of NAPL to Veolia in Flanders, NJ.
 - Two (2) 55-gallon drums on NAPL-stained PPE to Cycle Chem in Lewisburg, PA.

OU1 NAPL Recovery

- Sent pump head to manufacturer for regular servicing.
- Gauged accessible sentry wells on November 27.
- Pumped 32 gallons of NAPL from RW4-2.

Site Security, Maintenance, and Inspections

- Completed weekly boom inspections on November 8, November 14, November 19, and November 25.
- Replaced inner and outer absorbent boom on November 26.
- Completed weekly SWPPP inspections on November 8, November 14, November 20, and November 25.



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Two-Week Look-Ahead

- Continue NAPL pumping at RW4-2.
- Gauge sentry wells.
- Complete installation of permanent deadmen/tie-rod system inside Tent 7-1 located in ISS Area 7B (adjacent to the bulkhead) and begin installation of temporary cap.
- Complete debris removal and ISS activities in Tent 3-2 located in ISS Area 3A (northwest corner of Site).
- Complete final restoration activities in Area 6A (adjacent to and south of the Pier Building).
- Continue realigning onsite utilities to prepare for future ISS activities.

Data and Submittals

ISS Compliance Data Summary

All samples required 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

- Received comments from EPA on November 12 on the Perimeter Air Monitoring Plan Addendum #3. Final version submitted back to EPA on November 15 incorporating changes.
- Submitted to EPA on November 22 a request to perform additional treatment cells located in Area 8 (northeast portion of the site) outside of tents based on the continued success of reducing emissions while working outside tents.

Receipt of Approvals/Denials

EPA denied proposal to perform Area 8 (noted above) outside of tents, at this time.

Issues and Corrective Actions

No corrective actions were taken during this reporting period.



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Stakeholder Communication and Community Involvement

- Submitted the monthly progress report for October on November 8th.
- 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 November, four community concerns were submitted to EPA through the call center hotline or by email about odors. Each concern/complaint was thoroughly investigated by onsite staff and odors and activities at the time of the complaint were documented and provided to EPA. If a call back was requested, an EPA or Honeywell representative responded accordingly.
- 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.
- Complete ISS activities within Tent 3-2 (northwest corner of the site) and cover the soil stockpile and installation of temporary cap inside the tent. Begin to relocate the tent to the next location in Area 3A.
- Complete installation of the permanent deadman and tie-rod system for the bulkhead in Tent 7-1 in ISS Area 7B (adjacent to bulkhead) and install temporary cap inside tent. Relocate the tent to the next location in Area 7B.
- Begin ISS activities in Area 6 outside of tents adjacent to the Pier Building.

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 entire OU1 Remedial Action is approximately 64 percent complete.



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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

Attachment – Figure 1 - ISS Status Map
In Situ Solidification/Stabilization Results Dashboard

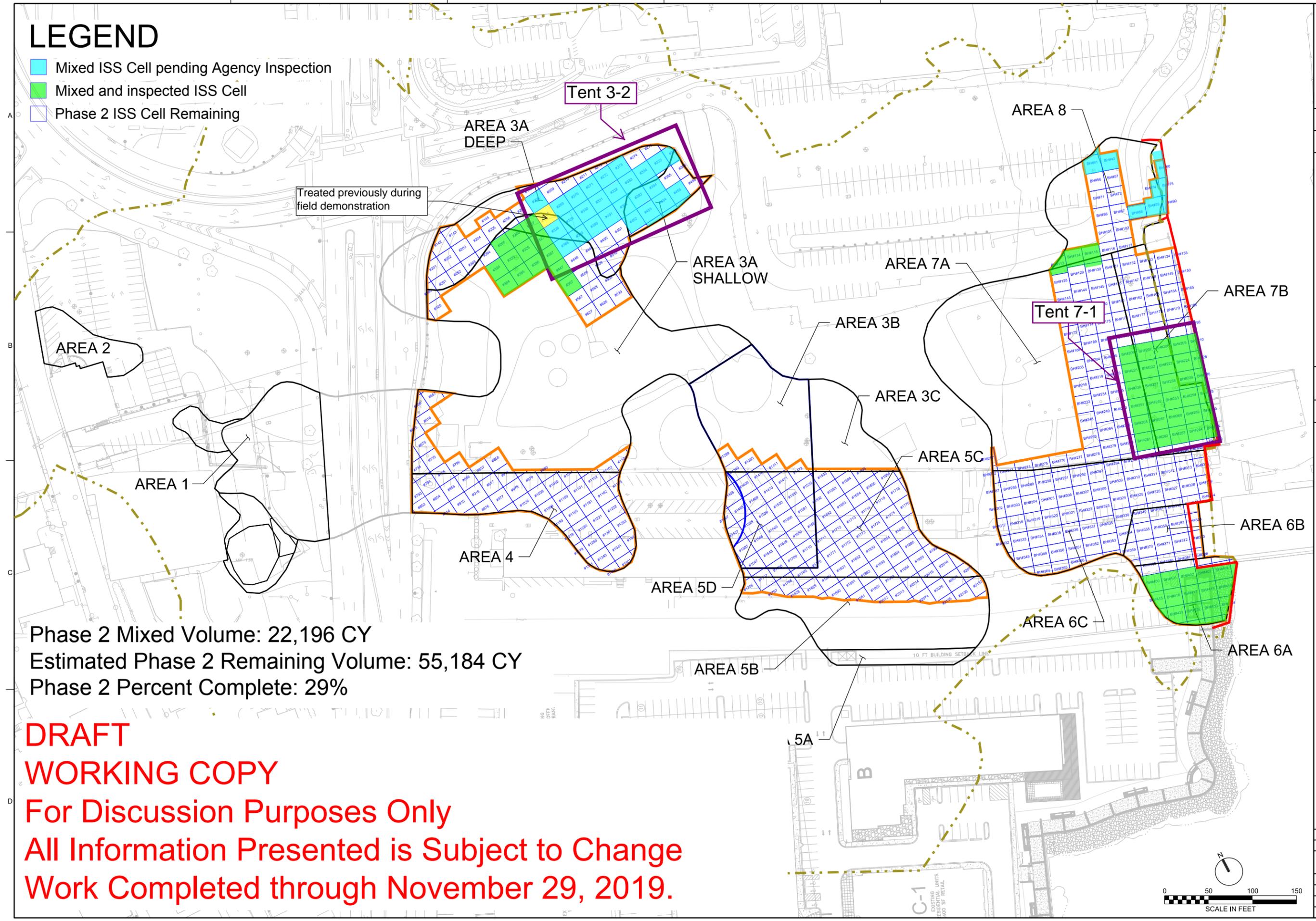
Copies to:

Clay Monroe (EPA)
Steve Coladonato (Honeywell)
Erica Bergman (NJDEP)
Helen Fahy (Fahy Associates)
Neil Ravensbergen (USACE)
Frank Rossi (Boswell)
Michael Johnson (USACE)
Devin Sokolich (Hongkun USA)

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

LEGEND

- Mixed ISS Cell pending Agency Inspection
- Mixed and inspected ISS Cell
- Phase 2 ISS Cell Remaining



Phase 2 Mixed Volume: 22,196 CY
 Estimated Phase 2 Remaining Volume: 55,184 CY
 Phase 2 Percent Complete: 29%

DRAFT
WORKING COPY
 For Discussion Purposes Only
 All Information Presented is Subject to Change
 Work Completed through November 29, 2019.

HONEYWELL INTERNATIONAL INC. QUANTA RESOURCES CORPORATION SUPERFUND SITE Edgewater, New Jersey		EA MCKENNA DR PA KARABAN CHK APVD
JACOBS CIVIL PHASE 2 ISS CELLS	NO. DATE DSGN	REVISION CHK APVD
DATE: _____ PROJ: 428872 DWG: FIG-1 SHEET: _____ of _____		1"=50' VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING.
FILENAME: 10-C-F201-9-24-19.dgn PLOT DATE: 2019/09/25 PLOT TIME: 10:12:09 AM		

In Situ Solidification/Stabilization Results Dashboard, Tent 3-1 (Leaching Batch 5)

Quanta Resources Corporation Superfund Site, OU1

Data through: 12/3/2019

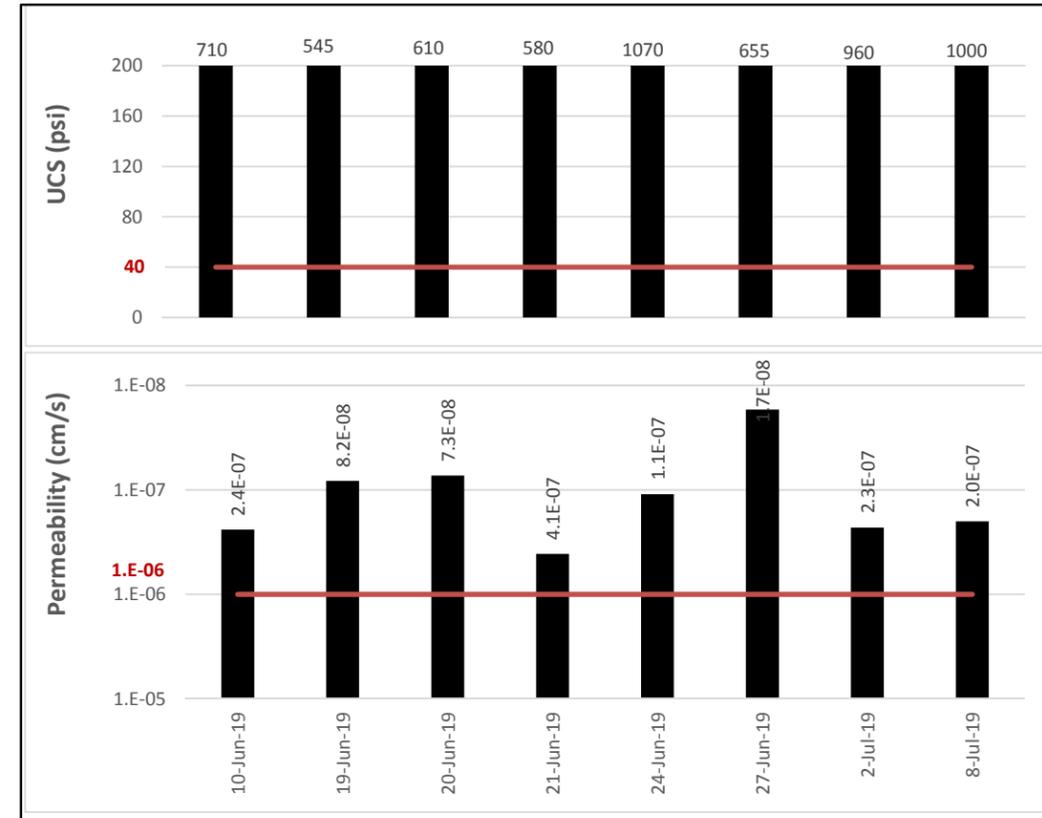
Tent	Date	Volume (CY)	Mix Design		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
3-1	10-Jun-19	288	2%	6%	710	2.40E-07
3-1	19-Jun-19	167	2%	6%	545	8.20E-08
3-1	20-Jun-19	166	2%	6%	610	7.30E-08
3-1	21-Jun-19	280	2%	6%	580	4.10E-07
3-1	24-Jun-19	147	2%	6%	1070	1.10E-07
3-1	27-Jun-19	343	2%	6%	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

Total CY Mixed: 2076

Leaching Reduction by Constituent		8-Jul-19	
Site Constituent			
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 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, Tent 3-2 (Leaching Batch 5)

Quanta Resources Corporation Superfund Site, OU1

Data through: 12/3/2019

Tent	Date	Volume (CY)	Mix Design		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
3-2	10-Sep-19	179	2%	6%	470	2.50E-07
3-2	11-Sep-19	339	2%	6%	65	2.30E-07
3-2	12-Sep-19	293	2%	6%	550	3.40E-07
3-2	13-Sep-19	182	2%	6%	490	5.70E-08
3-2	17-Sep-19	343	2%	6%	465	2.10E-07
3-2	23-Sep-19	342	2%	6%	330	2.00E-07
3-2	24-Sep-19	329	2%	6%	405	1.20E-07
3-2	25-Sep-19	328	2%	6%	690	2.30E-07
3-2	27-Sep-19	414	2%	6%	485	1.60E-07
3-2	30-Sep-19	304	2%	6%	830	2.90E-07
3-2	1-Oct-19	348	2%	6%	615	2.90E-07
3-2	2-Oct-19	355	2%	6%	775	2.40E-07
3-2	9-Oct-19	306	2%	6%	270	2.70E-07
3-2	11-Oct-19	320	2%	6%	80	2.60E-07
3-2	14-Oct-19	71	2%	6%	200	2.90E-07
3-2	17-Oct-19	301	2%	6%		
3-2	22-Oct-19	320	2%	6%	440	
3-2	29-Oct-19	273	2%	6%		
3-2	7-Nov-19	261	2%	6%		
3-2	12-Nov-19	327	2%	6%		
3-2	13-Nov-19	104	2%	6%		
3-2	15-Nov-19	203	2%	6%		
3-2	21-Nov-19	320	2%	6%		
3-2	22-Nov-19	92	2%	6%		
3-2	26-Nov-19	331	2%	6%		

Total CY Mixed: 6985

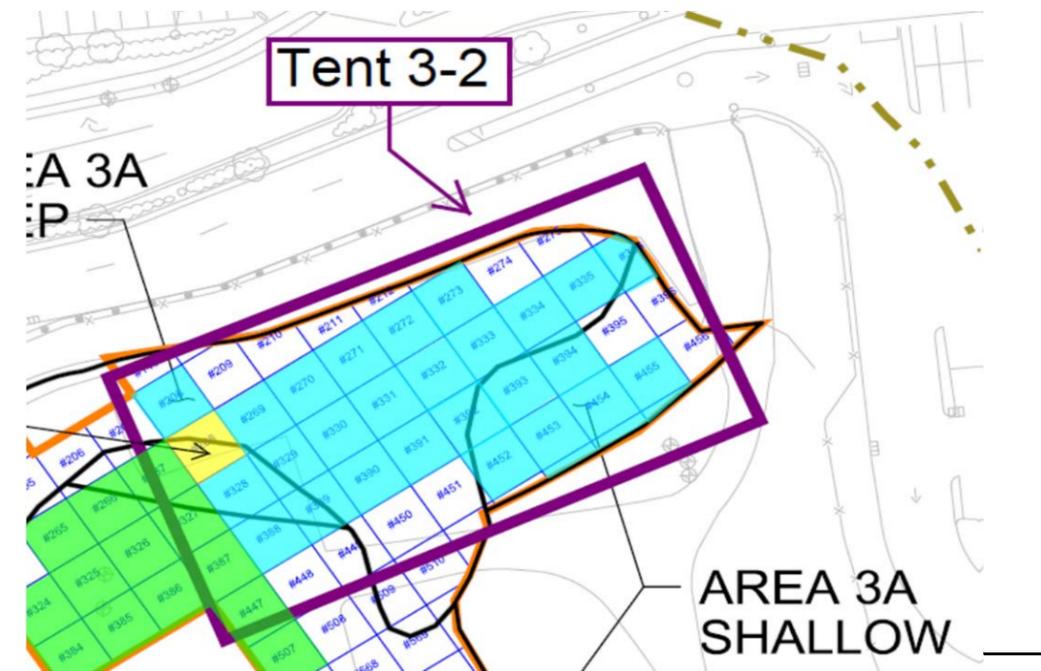
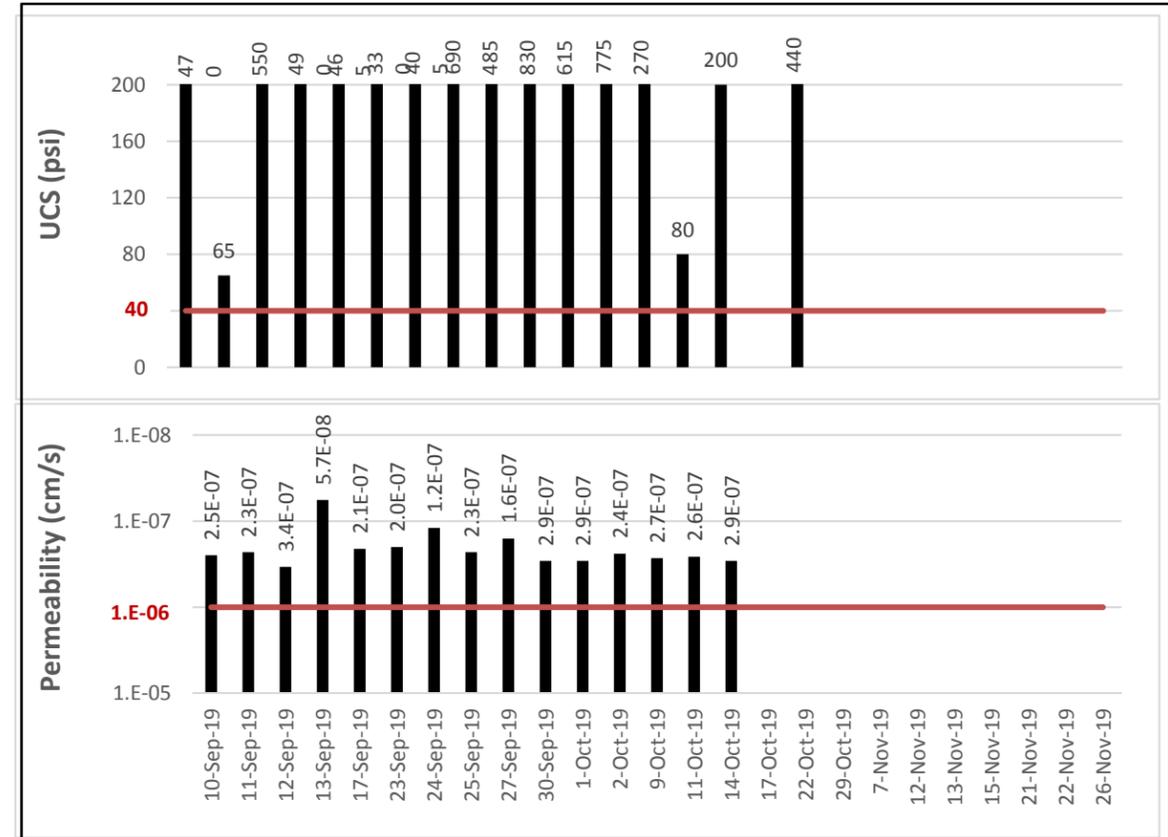
Data Pending

Leaching Reduction by Constituent

Site Constituent	11-Oct-19	Site Constituent	11-Oct-19
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		

Data Pending

Constituents Passing



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

In Situ Solidification/Stabilization Results Dashboard, Tent 7-1 (Leaching Batch 6)

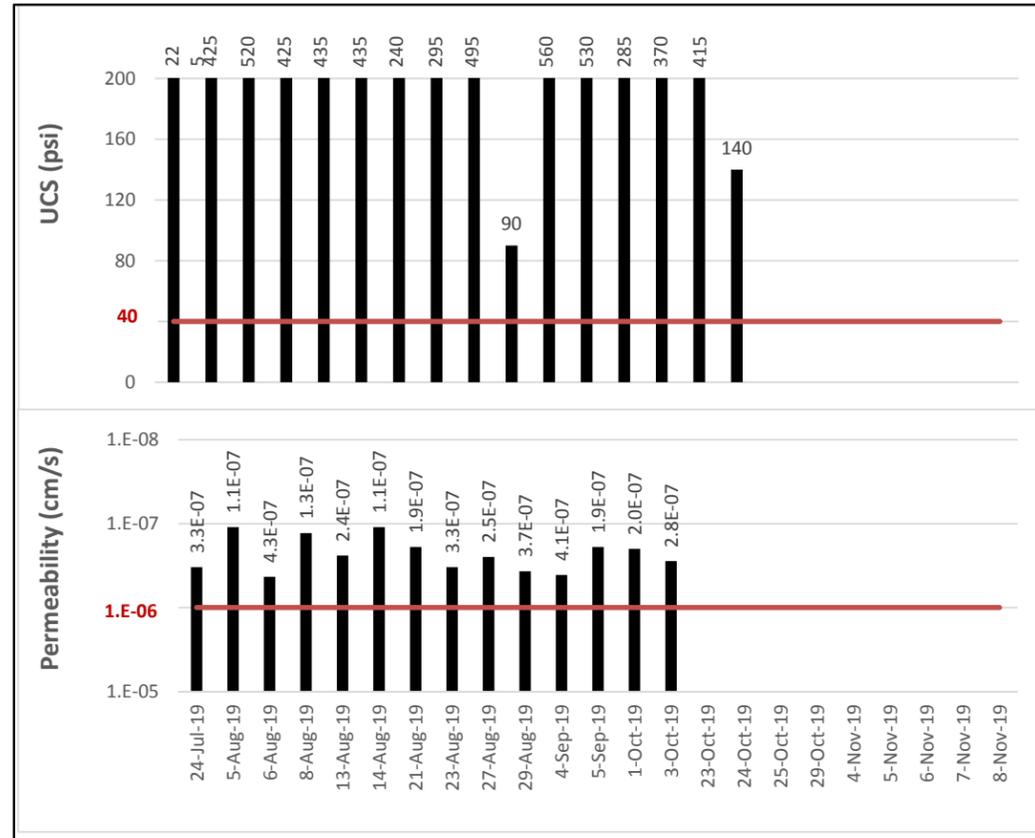
Quanta Resources Corporation Superfund Site, OU1

Data through: 12/3/2019

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%	560	4.1E-07
7-1	5-Sep-19	282	2%	6%	530	1.9E-07
7-1	1-Oct-19	457	2%	6%	285	2.0E-07
7-1	3-Oct-19	246	2%	6%	370	2.8E-07
7-1	23-Oct-19	596	2%	6%	415	
7-1	24-Oct-19	290	2%	6%	140	
7-1	25-Oct-19	308	2%	6%		
7-1	29-Oct-19	296	2%	6%		
7-1	4-Nov-19	260	2%	6%		
7-1	5-Nov-19	268	2%	6%		
7-1	6-Nov-19	159	2%	6%		
7-1	7-Nov-19	262	2%	6%		
7-1	8-Nov-19	276	2%	6%		

Total CY Mixed: 8311

Data Pending



Leaching Reduction by Constituent			
Site Constituent	Site 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 Fluorene		
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			

Constituents Passing

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

Data Pending



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

In Situ Solidification/Stabilization Results Dashboard, NT-61 (Leaching Batch 7)

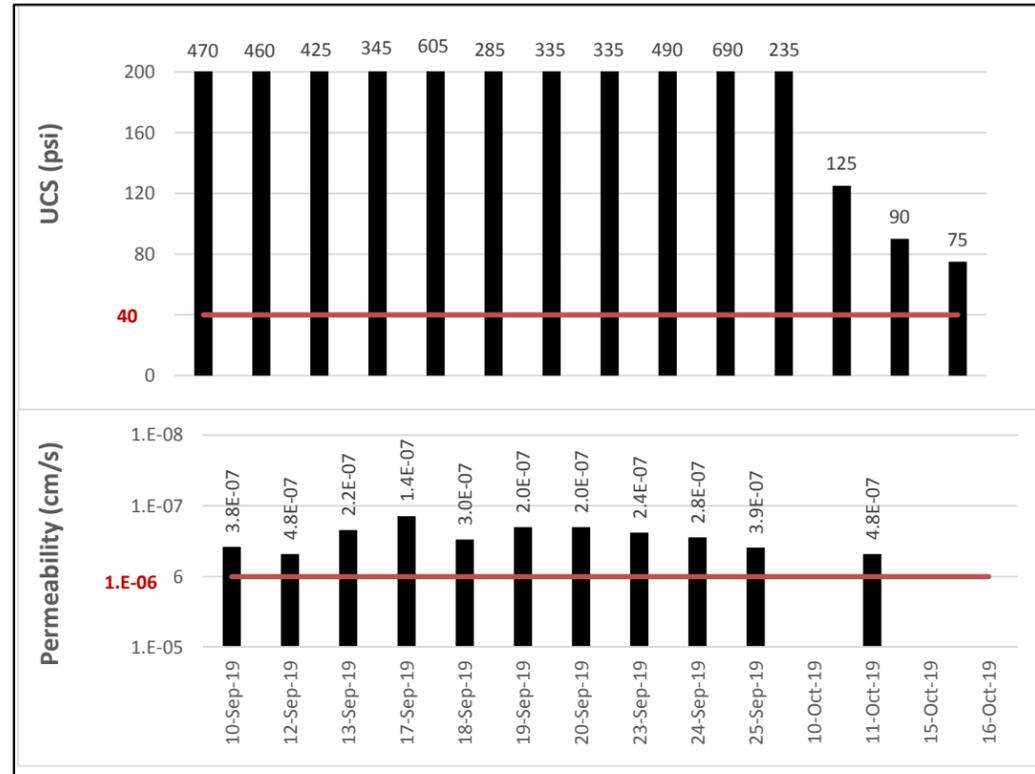
Quanta Resources Corporation Superfund Site, OU1

Data through: 12/3/2019

Area	Date	Volume (CY)	Mix Design		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
NT-61	10-Sep-19	237	4%	6%	470	3.8E-07
NT-61	12-Sep-19	247	4%	6%	460	4.8E-07
NT-61	13-Sep-19	220	4%	6%	425	2.2E-07
NT-61	17-Sep-19	292	4%	6%	345	1.4E-07
NT-61	18-Sep-19	266	4%	6%	605	3.0E-07
NT-61	19-Sep-19	354	4%	6%	285	2.0E-07
NT-61	20-Sep-19	239	4%	6%	335	2.0E-07
NT-61	23-Sep-19	244	4%	6%	335	2.4E-07
NT-61	24-Sep-19	221	4%	6%	490	2.8E-07
NT-61	25-Sep-19	226	4%	6%	690	3.9E-07
NT-61	10-Oct-19	225	4%	6%	235	
NT-61	11-Oct-19	210	4%	6%	125	4.8E-07
NT-61	15-Oct-19	172	4%	6%	90	
NT-61	16-Oct-19	118	4%	6%	75	

Total CY Mixed: 3271

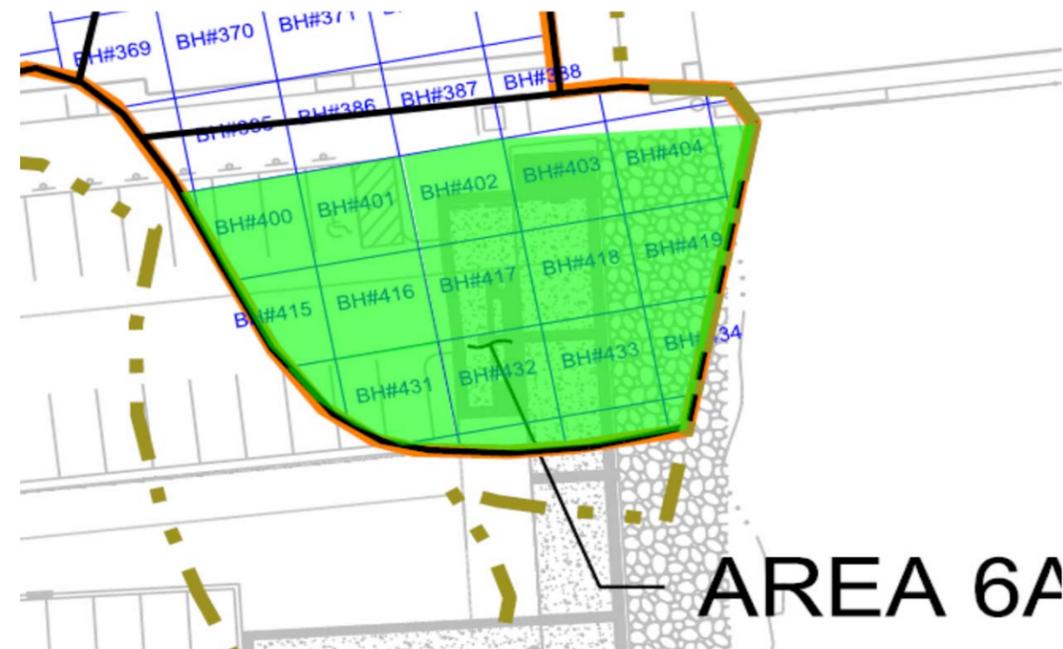
Data Pending



Leaching Reduction by Constituent		13-Sep-19	
Site	Constituent		
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 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.

In Situ Solidification/Stabilization Results Dashboard, Area 8 (Leaching Batch 8)

Quanta Resources Corporation Superfund Site, OU1

Data through: 12/3/2019

Area	Date	Volume (CY)	Mix Design		UCS (≥40 psi)	Permeability (≤1E-6 cm/s)
			Cement	Slag		
8	14-Nov-19	234	2%	6%	Data Pending	
8	15-Nov-19	124	2%	6%		
8	18-Nov-19	171	2%	6%		
8	19-Nov-19	304	2%	6%		
8	20-Nov-19	116	2%	6%		
8	21-Nov-19	195	2%	6%		
8	22-Nov-19	113	2%	6%		
8	25-Nov-19	170	2%	6%		
8	26-Nov-19	103	2%	6%		

Total CY Mixed: 1530



Leaching Reduction by Constituent		25-Nov-19	
Site	Constituent		
1	Arsenic	Data Pending	
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			

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



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