



Quanta Resources Superfund Site

Edgewater, New Jersey

Project Update

December 6, 2018





Operable Unit 1 – Land

- Main Quanta Site Status
- Soil Solidification
- Air Monitoring
- City Place Air Sampling
- High Concentration Arsenic Area Pilot

Operable Unit 2 – River and Contaminated Sediments

- Remedial Investigation
- Additional Work (Phase 2)



Quanta Main Site Status

- ~50% OU1 soil solidification complete
- Demolition of 115 River Road 75% complete
- Site covered in fabric and gravel
- Majority of steel bulkhead installed along shoreline

ISS Completion Map





Air Monitoring

- Air monitoring network restored
- Real-time fenceline monitors
- Off site Sampling locations:
 - City Place
 - iPark
 - The Metropolitan
 - The Promenade
 - Independence Harbor
- Daily 24-hour samples

Air Monitoring Network - May 18th



Aerial image © 2018 Google Earth. Annotation © 2018 CH2M HILL.

After Soil Solidification Resumes



Aerial image © 2018 Google Earth. Annotation © 2018 CH2M HILL.



City Place Air Sampling

- 3 sampling events
 - Baseline
 - Tented soil solidification
 - Untented soil solidification
- Requires flexible schedule
- Results shared with City Place Board first



City Place Air Sampling (con.)

- Highest detected naphthalene at City Place
- Location of Buildings 500 & 600
- Prevailing winds
- Building elevator ventilation
- Prime indicators for naphthalene

High Concentration Arsenic Area





High Concentration Arsenic Area Pilot

- Zero Valent Iron (ZVI) effective
- Injections of ZVI to bind arsenic
- Pilot will be conducted in 2019
- Long term groundwater monitoring required



OU1 Schedule and Next Steps

- Air Permit Equivalency
 - Required for operation of air handlers for tents
 - NJDEP is reviewing
- Soil solidification resumes early 2019
- Anticipated completion end of 2019
- Schedule impacted by many factors – NJDEP, weather, and movement of tents



Operable Unit 2

River and Contaminated Sediments





Remedial Investigation

- Phase 1 completed in 2014
- Over 470 sediment and surface water samples collected
- Human Health and Ecological Risk Assessment completed and established preliminary remediation goals
- To refine areas for remediation, additional field investigations were conducted





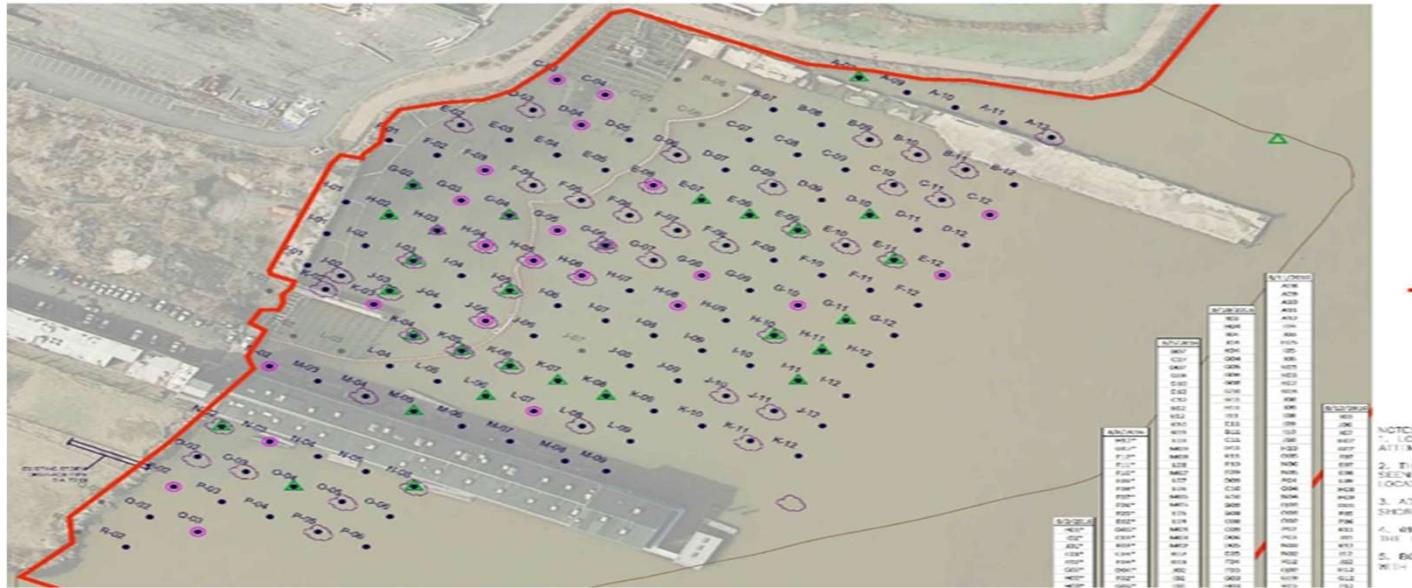
Additional Work (Phase 2)

- Sheen studies using boat and camera surveys
- Probe study to evaluate mobility of NAPL
- Sediment coring in areas previously not well defined – additional 600 samples collected
- Laboratory tests for mobility and chemical concentrations

Sheen Study



Probe Study





Sediment Coring and Analysis

Detailed analysis of each core using:

- visual observation
- ultraviolet light detection
- volatile emissions measurement
- response to flute paper
- laboratory contaminant analysis



Supplemental Sediment Sampling



Field Sediment Analysis





Bench-Scale Treatability Studies

- Designed to evaluate effectiveness of ISS on contaminated sediments
- Currently on-going
- Field scale pilot tests to follow

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America ASL
EPA 1315M Photos

Project: Quanta OU2
Test Start: 4/30/2018

Sample ID	Time Step	VOC jar	SVOC jar	VOC jar	SVOC jar
TierII_15Dry_95_L	T02 (1.00 days)				
TierII_15Dry_95_L	T03 (2.00 days)				
TierII_15Dry_95_L	T04 (7.00 days)				
TierII_15Dry_95_L	T05 (14.00 days)				



OU2 Next Steps

- Potential field scale pilot study to evaluate ISS technology for contaminated sediments and control of vapor emissions
- Complete Feasibility Study
- Issue Proposed Remedial Plan



EPA Quanta Website

www.epa.gov/superfund/quanta-resources

Honeywell Quanta Remediation Website

www.quantaremediation.com

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