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January 17, 2012

Mr. Richard Ho, RPM/OSC
U.S. Environmental Protection Agency – Region 2
Emergency and Remedial Response Division
290 Broadway, Floor 19
New York, NY 10007-1866

Subject: **Quanta Resources Superfund Site, Operable Unit 1 (OU1)
Edgewater, New Jersey
Progress Report – December 2011**

Dear Mr. Ho:

This letter is the progress report required pursuant to the U.S. Environmental Protection Agency (USEPA) Administrative Order on Consent (AOC) for the Remedial Investigation and Feasibility Study (RI/FS) at OU1 (Index Number II-CERCLA-2003-2012, Item 53).

Activities Completed This Reporting Period

The following activities were completed during this reporting period as part of continued implementation of the OU1 RI/FS Work Plan and implementation of the Record of Decision (ROD).

Vapor Intrusion (VI)

- Awaiting response from NJDEP and EPA on the technical memorandums for the March 2011 vapor intrusion results for the monitoring events at 163 Old River Road, 103 River Road, and 115 River Road.

OU1 Remedial Pre-Design

- Continued preparation of a scope of work for the bench scale treatability studies and pre-design field activities.
- Continued review of the draft consent decree for remedial design/remedial action.

Site Security

- Conducted weekly site security and boom inspections.

Stakeholder Communication

- Submitted monthly update for November 2011 to QCAGE on December 14.
- Submitted the monthly progress report (PR) for November 2011 to USEPA on December 14.

Activities Planned for Next Reporting Period

- Conduct monthly site security and weekly Hudson River boom inspections.
- Continue preparation of treatability testing work plan in accordance with the EPA ROD and the Consent Decree.
- Prepare and submit a “good faith offer” associated with the Special Notice Letter received in November 2011.
- Begin preparation of the 2012 VI winter season sampling event for 115 River Road.

Project Delays Encountered/Project Status

No project delays are anticipated at this time.

Project Milestones

Milestone	Date Completed
Receives AOC and SOW, OU1	Nov. 4, 2003
Notifies USEPA of Honeywell-Designated Project Coordinator	Nov. 4, 2003
Submits Signs and Security Plan	Nov. 24, 2003
Submits qualifications of personnel	Dec. 19, 2003
Submits RI/FS Work Plan for OU1 (including FSP, QAPP, and HSP)	Jan. 19, 2004
Receives USEPA comment letter on Signs and Security Plan	April, 30, 2004
Submits Honeywell response to comments on Signs and Security Plan	June 10, 2004
Receives USEPA comment letter on RI/FS Work Plan	June 30, 2004
Submits Honeywell draft response to USEPA comments on RI/FS Work Plan	Sept. 10, 2004
Submits Honeywell list of 26 items and internal submittals	Dec. 7, 2004
Submits Honeywell response to USEPA Items #s 1, 4, 5, 8, 12, 14, 16, and 18	Dec. 23, 2004
Submits Honeywell response to USEPA Items #s 2 and 6	Jan. 10, 2005
Submits Honeywell response to USEPA Items #s 7, 9, and 10	Jan. 13, 2005
Submits Honeywell response to USEPA Items #s 3, 11, 13, 17, and 26	Feb. 11, 2005
Submits Honeywell response to USEPA Item # 15	April 8, 2005
Receives USEPA approval of OU1 RI/FS Work Plan	May 2, 2005
Submits Final RI/FS Work Plan for OU1 (including FSP, QAPP, and HSP)	May 18, 2005
Notifies USEPA of Honeywell change in project coordinator	June 16, 2005
Submits technical memoranda on Exposure Scenarios and Assumptions for the Ecological and the Human Health Risk Assessments	July 1, 2005 (rev. Aug. 31, 2005, and Nov. 7, 2005)
Submits revised QAPP	Oct. 26, 2005
Submits revised schedule	Dec. 12, 2005
Submits revised approach for Pathway Analysis Report (PAR)	Jan. 6, 2006
Receives USEPA approval of QAPP	Jan. 11, 2006
Receives USEPA approval of PAR approach (January 6, 2006)	Jan. 11, 2006 (via e-mail)
Submits Vapor Intrusion (VI) Evaluation Work Plan	Jan. 25, 2006
Submits Draft Preliminary Site Characterization Report (PSCR) and Draft Identification of Candidate Technologies Memorandum (CTM)	Feb. 23, 2006
Receives USEPA request that submittal of the Draft PAR and Draft Screening Level Ecological Risk Assessment (SLERA) be placed on hold until USEPA provides final comments on November 2005 technical memo	Feb. 24, 2006 (via e-mail)
Submits Draft SLERA	March 9, 2006
USEPA approves VI Evaluation Work Plan	March 20, 2006
Submits Final VI Evaluation Work Plan	March 29, 2006

Milestone	Date Completed
Submits letter to NJDEP regarding identification of additional data needs	April 19, 2006
Submits Draft PAR	April 28, 2006
Submits draft technical memorandum for VI evaluation at 115 River Road	April 28, 2006
Receives USEPA Comment Letter on Draft PSCR	June 30, 2006
Receives USEPA Comment Letter on Draft SLERA	July 7, 2006
Receives USEPA Comment Letter on Draft PAR	July 12, 2006
Receives Draft USEPA Comments on Draft Technical Memorandum for VI Evaluation at 115 River Road	July 20, 2006 (via e-mail)
Receives USEPA Comment Letter on Draft CTM	July 28, 2006
Submits Draft OU1 RI/FS Work Plan Addendum and Response to PSCR Comments	July 28, 2006
Submits Field Sampling Plan Addendum	Aug. 11, 2006
Submits response to USEPA comments on Draft PAR, Draft SLERA, and Draft Technical Memorandum for VI Evaluation at 115 River Rd.	Aug. 30, 2006
Receives request from USEPA to help prepare a QCAGE presentation	Aug. 30, 2006
Receives comments from USEPA on Draft QAPP portion of the OU1 RI/FS Work Plan Addendum.	Sept. 1, 2006
Receives e-mail request from USEPA to include additional analyses for arsenic speciation in groundwater.	Sept. 12, 2006
Receives comment on the OU1 SLERA.	Sept. 14, 2006 (via e-mail)
Receives an e-mail request from USEPA to prepare Scope of Work for a Stage IA Cultural Resource Survey.	Sept. 19, 2006
Submits response to USEPA comment on the OU1 SLERA	Sept. 21, 2006 (via e-mail)
Submits VI Technical Memorandum for 115 River Road	Oct. 6, 2006
Submits Supplemental Groundwater Sampling Letter for Arsenic	Oct. 11, 2006
Submits revised Quality Assurance Project Plan (QAPP) for OU1	Nov. 10, 2006
Submits response to Draft Candidate Technology Memorandum (CTM) comments.	Nov. 21, 2006
Submits an Interim Remedial Measure (IRM) plan for select monitoring wells. Comments received from USEPA and from NJDEP in following days.	Dec. 11–13, 2006
Attends meeting with USEPA and NJDEP on to present results from RI/FS investigation and supplemental TarGOST™ results.	Dec. 19, 2006
Submits technical memorandum regarding the potential air exposure pathways for ambient arsenic (Nov 27 e-mail) dust.	Dec. 21, 2006
Submits the Draft Stage IA Cultural Resources Survey Work Plan.	Jan. 31, 2007
Submits Vapor Intrusion Response to Comments (Nov. 3 and Dec. 11 e-mail from USEPA) regarding Oct. 6 submittal	Jan. 31, 2007
Submits Draft Summary of the OU1 Supplemental Investigation Metals Soil Sampling and Evaluation of Cinder/Ash and Pyrite-Impacted Soils	Feb. 9, 2007

Milestone	Date Completed
Receives USEPA approval of Stage IA Cultural Resources Survey Work Plan	Feb. 14, 2007
Submits technical memorandum regarding northern extent of Edgewater Enterprises property and media to be evaluated in the Human Health Risk Assessment (HHRA)	Feb. 21, 2007
Receives USEPA comments on Jan. 31 Vapor Intrusion (VI) Submittal	Feb. 23, 2007
Submits Proposed Scope of Work for the Evaluation of Cinder/Ash and Pyrite Cinder-Impacted Soils	Feb. 28, 2007
Submits product recovery field documentation summary	March 8, 2007
Receives USEPA comments on Evaluation of Cinder/Ash and Pyrite Cinder-Impacted Soils Scope of Work submitted Feb. 28	March 8, 2007
Receives NJDEP comments on Evaluation of Cinder/ Ash and Pyrite Cinder-Impacted Soils Scope of Work submitted Feb. 28	March 20, 2007
Submits revised evaluation of Cinder/ Ash and Pyrite Cinder-Impacted Soils Scope of Work	April 20, 2007
Receives USEPA approval to proceed with Cinder/Ash Scope of Work.	May 4, 2007 (via e-mail)
Receives EPA correspondence to Borough of Edgewater regarding Reopening of Building on Block 93, Lots 1 & 2 (aka, Jono's Restaurant)	May 14, 2007
Submits Stage IA Cultural Resources Survey	May 30, 2007
Submits Vapor Intrusion Evaluation Site Visit at 115 River Road Building Report	July 9, 2007
Meets with agencies (USEPA, NJDEP) to review the details of the Preliminary Alternatives Evaluation memorandum in support of the FS for OU1	July 25, 2007
Submits Preliminary Alternatives Memorandum for OU1	Aug. 9, 2007
Submits Characterization of Cinders and Reddish-Purple Soil data package	Aug. 10, 2007
Submits Characterization of Cinder/Ash and Reddish-Purple Soils- Field Work Summary and Analytical Results Discussion	Sept. 7, 2007
Submits Updated Vapor Intrusion Evaluation, 163 River Road (Former Jono's Restaurant,), Block 93, Edgewater, NJ, memorandum	Oct. 1, 2007
Receives Agency comment via e-mail on the Characterization of Cinder/Ash and Reddish-Purple Soils Memorandum	Oct. 24, 2007
Submits NAPL Recovery Testing Results technical memorandum	Nov. 6, 2007
Submits OU1 Remedial Investigation Report to USEPA	Nov. 15, 2007
Submits Draft OU1 Baseline Human Health Risk Assessment to USEPA	Nov. 15, 2007
Met with USEPA to present results of OU1 RI Report	Nov. 27, 2007
Receives EPA request for annual sub slab and indoor air sampling at the 115 River Road building	Dec. 5, 2007
Receives NJDEP comments on October 2006 Vapor Intrusion Report for 115 River Road building via e-mail	Dec. 6, 2007
Submits Vapor Intrusion Evaluation at 115 River Road Work Plan Addendum to USEPA	Jan. 25, 2008

Milestone	Date Completed
Submits response to USEPA/NJDEP comments on the October 2006 Technical Memorandum: Results from the Vapor Intrusion Evaluation at 115 River Road to USEPA	Jan. 25, 2008
Submits Vapor Intrusion Evaluation at 163 Old River Road Work Plan Addendum to USEPA	Jan. 25, 2008
Attends technical meeting with NJDEP, USEPA to discuss conclusions of the Draft RI Report and preliminary agency comments	Feb. 5 and 6, 2008
Receives comments from USEPA on the Vapor Intrusion Evaluation at 115 River Road Work Plan Addendum	Feb. 15, 2008 (via e-mail)
Receives comments from USEPA on the Vapor Intrusion Evaluation at 163 Old River Road Work Plan Addendum	Feb. 27, 2008 (via e-mail)
Receives comments from USEPA on the Draft Remedial Investigation Report for OU1 via e-mail	April 4, 2008 (via e-mail)
Submits letter to USEPA regarding Draft Remedial Investigation comments received April 4, 2008	April 17, 2008
Receives comments from USEPA regarding Remedial Action Objectives and Remediation Goals for the OU1 Feasibility Study via	April 24, 2008 (via e-mail)
Meets with USEPA to discuss RI comments	April 28, 2008
Conducts OU1 Remedy discussion meeting with USEPA, NJDEP	May 7, 2008
Submits RI/FS Work Plan Addendum No. 4 to NJDEP, USEPA	May 19, 2008
Submits draft Technical Impracticability Waiver outline to USEPA	June 13, 2008
Meets with USEPA regarding FS alternatives	June 18, 2008
Receives comments from USEPA regarding RI/FS Work Plan Addendum No. 4 via e-mail	June 19, 2008 (via e-mail)
Submits technical memorandum for a vapor intrusion evaluation at 115 River Road to NJDEP, USEPA	June 20, 2008
Meets with USEPA regarding FS alternatives (follow-up to June 18 meeting)	June 26, 2008
Holds conference call with USEPA to discuss specific alternative components	July 2, 2008
Submits technical memorandum for a vapor intrusion evaluation at 163 Old River Road to NJDEP, USEPA	July 25, 2008
Public Information Session presented by USEPA (topics included NAPL and Vapor Intrusion)	July 29, 2008
Submits Final RI/FS Work Plan Addendum No. 4 to NJDEP, USEPA	July 31, 2008
Public Information Session (topics include soil and groundwater results from the OU1 RI Report), presented by USEPA	Aug. 5, 2008
Submits Final OU1 RI Report and response to comments to NJDEP, USEPA	Aug. 29, 2008
Submits summary of the Technical Impracticability Waiver to USEPA	Sept. 16, 2008
Submits Vapor Intrusion Evaluations Work Plans for winter 2009 heating season work at 163 Old River Road, 115 River Road, and 103 River Road on to NJDEP, USEPA	Jan. 14, 2009

Milestone	Date Completed
Receives comments from USEPA and NJDEP regarding Vapor Intrusion Evaluations Work Plans for winter 2009 heating season work at 163 Old River Road, 115 River Road, and 103 River Road	Feb. 11, 2009
Submits Preliminary Draft Feasibility Study Report to USEPA	Feb. 26, 2009
Meets with USEPA to discuss the Preliminary Draft Feasibility Study Report	Feb. 26, 2009
Submits response to EPA/NJDEP comments regarding Vapor Intrusion Monitoring Work Plans for winter 2009 heating season work at 163 Old River Road, 115 River Road, and 103 River Road	Mar. 4, 2009
Meets with USEPA and NJDEP at the site to review the proposed vapor intrusion sampling locations at 115 River Road, 163 Old River Road and 103 River Road	Mar. 5, 2009
Received comments from EPA regarding the Vapor Intrusion Monitoring Work Plans submitted to EPA on Mar. 4, 2009	Mar. 10, 2009
Attends meeting with USEPA and NJDEP to present in situ stabilization/solidification technology	April 8, 2009
Submits preliminary analytical data from 2009 indoor air, subslab soil gas and outdoor air sampling at 163 Old River Road to USEPA	April 13, 2009
Submits preliminary analytical data from 2009 indoor air, subslab soil gas and outdoor air sampling at 115 River Road to USEPA and NJDEP	April 20, 2009
Submits final Vapor Intrusion Monitoring Work Plans for winter 2009 heating season work at 163 Old River Road, 115 River Road, and 103 River Road to USEPA and NJDEP	April 21, 2009
Receives USEPA comments on Technical Impracticability Waiver Draft Summary via e-mail	April 23, 2009 (via e-mail)
Submits SRI Interim Deliverable No.1 to USEPA and NJDEP which addresses Objectives 2, 3, and 4 of the SRI Work Plan	April 28, 2009
Submits SRI Interim Deliverable No. 2 to USEPA and NJDEP which addresses Objective 1 of the SRI Work Plan	May 19, 2009
Submits HHRA Interim Deliverable (RAGS D Tables) for Block 93 Central and South to USEPA which addresses Objective 5 of the SRI Work Plan	June 8, 2009
Submits SRI Interim Deliverable No. 3 to USEPA and NJDEP which addresses Objective 6-8 of the SRI Work Plan	June 30, 2009
Receives USEPA comments on HHRA Interim Deliverable (RAGS D Tables) for Block 93 Central and South via e-mail	July 9, 2009 (via e-mail)
Submits draft technical memorandums of the March 2009 vapor intrusion sampling events for 115 River Road, 163 Old River Road, and 103 River Road	July 16, 2009
Submits draft SRI Report to USEPA and NJDEP	August 28, 2009
Receives NJDEP comments on draft technical memorandums of the March 2009 vapor intrusion sampling events for 115 River Road and 103 River Road	Sept. 2, 2009 (via e-mail)
Completed SRI groundwater sampling event #2, synoptic water level and NAPL measurements	Sept. 21, 2009

Milestone	Date Completed
Submits draft HHRA of Block 93 Central and South and qualitative assessment for additional samples (collected on other properties where an HHRA was previously completed as part of the RI) to USEPA and NJDEP	Oct. 13, 2009
Receives USEPA comments on draft HHRA documents submitted on October 13, 2009	Oct. 28, 2009(via e-mail)
Receives USEPA comments on draft SRI Report focusing on arsenic contamination in the soil and groundwater, including characterization and analytical aspects of the study as well as the conceptual site model for arsenic	Oct. 29, 2009(via e-mail)
Receives USEPA comments on 2009 VI memorandums	Nov. 13, 2009(via e-mail)
Receives NJDEP comments on HHRA documents associated with the OU1 draft SRI Report	Nov. 13, 2009(via e-mail)
Receives USEPA report on split samples (soil and groundwater event #1) collected associated with the OU1 SRI Report	Nov. 17, 2009(via e-mail)
Receives second set of USEPA comments on draft SRI Report	Nov. 30, 2009(via e-mail)
Received comments from the NJDEP associated with the draft SRI Report	Dec. 22, 2009 (via e-mail)
Submits draft OU1 Feasibility Study Report to USEPA and NJDEP	Dec. 18, 2009
Meets with USEPA to discuss the Draft Feasibility Study Report	Dec. 21, 2009
Received comments from the NJDEP associated with the draft SRI Report	Dec. 22, 2009 (via e-mail)
Meets with USEPA to discuss the OU1 groundwater model	Jan. 15, 2010
Received comments from the USEPA associated with the draft FS Report (Sections 4.3.3 and 4.3.4)	Jan. 29, 2010 (via e-mail)
Meets with USEPA to present the Construction Impact Mitigation Plan	February 1, 2010
Submits response to USEPA/NJDEP comments regarding vapor intrusion technical memorandum for 2009 sampling event at 115 River Road, 163 Old River Road and 103 River Road	February 23, 2010
Submits the revised technical memorandum for the vapor intrusion evaluation at 115 River Road, 163 Old River Road and 103 River Road to NJDEP and USEPA	February 23, 2010
Submits draft Vapor Intrusion Work Plans for 2010 sampling work at 115 River Road, 163 Old River Road and 103 River Road to NJDEP and USEPA	February 23, 2010
Submits OU1 SRI Groundwater Report associated with sampling event #2 to USEPA and NJDEP	March 30, 2010
Submits draft TI Waiver to USEPA and NJDEP	March 31, 2010
Received comments from the USEPA associated with the draft FS Report	April 16, 2010 (via e-mail)
Received initial comments from the USEPA associated with the National Remedy Review Board	April 30, 2010 (via e-mail)
Submits draft final SRI Report and HHRA documents to USEPA and NJDEP	June 23, 2010
Submits draft final FS Report to USEPA and NJDEP	July 8, 2010

Milestone	Date Completed
Submits draft final Technical Impracticability Evaluation document to USEPA and NJDEP	July 8, 2010
Attends OU1 Proposed Plan Public Meeting and Information Session	August 3 and 4, 2010
Attends second OU1 Proposed Plan Public Meeting and Information Session	September 13, 2010
Submits technical memorandums for 2010 vapor intrusion sampling events for 115 River Road, 163 Old River Road, and 103 River Road	January 7, 2011
Submits draft work plans for 2011 vapor intrusion sampling events for 115 River Road, and 103 River Road	January 7, 2011
Submits revised plans for 2011 vapor intrusion sampling events for 115 River Road, and 103 River Road	February 25, 2011
Submits draft work plan for the 2011 vapor intrusion sampling events at 163 Old River Road	February 25, 2011
Submits preliminary analytical data from 2011 indoor air, subslab soil gas and outdoor air sampling at 103 River Road to USEPA and NJDEP	March 18, 2011
Submits preliminary analytical data from 2011 indoor air, subslab soil gas and outdoor air sampling at 163 Old River Road to USEPA and NJDEP	March 22, 2011
Submits preliminary analytical data from 2011 indoor air, subslab soil gas and outdoor air sampling at 115 River Road USEPA and NJDEP	April 21, 2011
Submits draft technical memorandums of the March 2011 vapor intrusion sampling events for 163 Old River Road, and 103 River Road	July 6, 2011
Submits draft technical memorandums of the March 2011 vapor intrusion sampling events for 115 River Road,	July 8, 2011
EPA signs OU1 ROD	September 29, 2011
Draft Consent Decree for remedial design/remedial action issued by EPA	November 10, 2011

Please feel free to contact me at 248-223-6024 or Helen Fahy, Honeywell Remediation Manager, at 973-455-2989 if you have any questions or comments regarding the Quanta project.

Sincerely,

CH2M HILL



Stephen J. Zarlinski

Project Manager

cc: Clay Monroe (USEPA) Steve Coladonato (Honeywell)
Bob Hayton (NJDEP) Peter Zimmerman (ESAG)
Steve Anastos (ExxonMobil) Greg Franz (Borough of Edgewater)
Helen Fahy (Honeywell) Mark Nielsen (Environ)