New York State Department of Environmental Conservation

Division of Fish, Wildlife & Marine Resources 625 Broadway, 5th Floor, Albany, New York 12233-4757

Phone: (518) 402-8935 • Fax: (518) 402-8925

Website: www.dec.nv.gov

August 12, 2011



Joe Martens Commissioner

Erich Zimmerman Arcadis US, Inc 17-17 Rte 2-9 North Fair Lawn, NJ 07410

Dear Mr. Zimmerman:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to an Environmental Assessment for the proposed Remedial Invistation - Ramapo Paint Sludge Site # OU-1, area as indicated on the map you provided, located in the Southernmost 10-Acres of Operable Unit 1 (OU-1), Town of Ramapo, Rockland County.

Enclosed is a report of rare or state-listed animals and plants, significant natural communities, and other significant habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement as to the presence or absence of all rare or state-listed species or significant natural communities. This information should not be substituted for on-site surveys that may be required for environmental impact assessment.

The enclosed report may be included in documents that will be available to the public. However, any enclosed maps displaying locations of rare species are considered sensitive information, and are intended only for the internal use of the recipient; they should not be included in any document that will be made available to the public, without permission from the New York Natural Heritage Program.

The presence of the plants and animals identified in the enclosed report may result in this project requiring additional review or permit conditions. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.ht ml.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely, Lan Vetrusiak Jean Pietrusiak, Information Services

NYS Department Environmental Conservation

Enc.

cc: Region 3 #800

HOW TO REQUEST DATA FOR A PROJECT SITE from the New York Natural Heritage Program

Requests should be submitted in writing. Please send a request letter which provides all of the following information. We will provide a report on the rare species of plants and animals, and on the significant ecological communities, which are or may be in the vicinity of the project site.

Requests for data from the New York Natural Heritage Program are handled in the order in which they are received. Faxed requests are discouraged due to the poor quality of faxed maps. Since our office receives many requests each day, we strongly encourage you to contact us during the early stages of a project. You will receive the official response in writing.

NECESSARY INFORMATION. In order for us to determine what data you are requesting and respond to your request more quickly, the following information should be included. If your request lacks this information, our response will be delayed.

- 1. Write a brief <u>description</u> of the proposed project or activity (e.g., residential development, landfill siting, bridge repair, cellular communication tower). Include the current use of the project site.
- 2. Tell us why you need the data (e.g., environmental assessment under SEQR, wetland permit, management plan, town planning). Include any documents which are expected to include the data (e.g., EAF, DEIS, Phase I Assessment), and, if applicable, the Lead Agency for SEQR review.
- 3. Include the <u>name of all counties and towns</u> where the proposed project is located.
- 4. Include the name of all 7 ½ minute U.S.G.S. topographical maps where the proposed project is located.
- 5. Include a photocopy of the appropriate 7 ½ minute (1:24,000 or 1:25,000 scale) U.S.G.S. topographical or NYS DOT planimetric map(s), at a scale that includes identifiable geographic features. The preferred map size is 8 ½" x 11". Tax maps, architectural drawings, aerial photography, or road maps are generally not useful.
- 6. Clearly mark the boundary of the proposed project with a colored pen or highlighter.

EXAMPLE OF A COMPLETE DATA REQUEST:

"A 250 unit housing development is proposed for 400 acres in the Town of Red Hook, Dutchess County. The site is currently undeveloped, and mostly wooded with some former agricultural fields. We have been contracted to review the environmental impacts of the project and prepare the Environmental Assessment Form under SEQR, to be reviewed by the Town of Red Hook acting as Lead Agency. In order to complete the EAF, we will need to know whether the proposed project would likely impact any ecologically significant areas or rare species of plants or animals. Enclosed is a photocopy of the Saugerties USGS quadrangle showing the location of the proposed development in red."

WHERE TO SEND YOUR DATA REQUEST:

Information Services
New York Natural Heritage Program
New York State Department of Environmental Conservation
625 Broadway, 5th Floor
Albany, New York 12233 -4757
phone: (518) 402-8935
fax: (518) 402-8925

Natural Heritage Report on Rare Species and Ecological Communities



NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor, Albany, NY 12233-4757 (518) 402-8935

~The information in this report includes only records entered into the NY Natural Heritage databases as of the date of the report. This report is not a definitive statement on the presence or absence of all rare species or significant natural communities at or in the vicinity of this site.

~Refer to the User's Guide for explanations of codes, ranks and fields.

~Location maps for certain species and communities may not be provided 1) if the species is vulnerable to disturbance, 2) if the location and/or extent is not precisely known, 3) if the location and/or extent is too large to display, and/or 4) if the animal is listed as Endangered or Threatened by New York State

Natural Heritage Report on Rare Species and Ecological Communities



COMMUNITIES

Chestnut oak forest

This occurrence of Chestnut Oak Forest is considered significant from a statewide perspective by the NY Natural Heritage Program. It is either an occurrence of a community type that is rare in the state or a high quality example of a more common community type. By meeting specific, documented significance criteria, the NY Natural Heritage Program considers this occurrence to have high ecological and conservation value.

Office Use

NY Legal Status: Unlisted

S4 NYS Rank:

9520

Federal Listing:

Global Rank:

G5

S3 - Vulnerable

Last Report:

1999-07-08

EO Rank:

County:

Orange, Rockland

Town:

Haverstraw, Highlands, Ramapo, Stony Point, Tuxedo, Woodbury

Location:

and Habitat:

General Quality A tremendous, predominantly mature matrix forest with diverse physiognomy and composition. There is recent fire disturbance and some exotic species. Deer browsing ranges from moderate to heavy across the area. The forest is bisected by park roads. This tremendous matrix forest blankets the majority rolling, mountainous terrain of the Hudson River Highlands. Embedded within and grading into the chestnut oak forest are large areas of red oak-sugar maple forest and

hemlock-northern hardwood forest within mesic drainages, low slopes with deeper soils, and north-facing slopes. Some of these areas have very large trees. There are numerous small wetland communities embedded in low lying basins including highbush blueberry bog thickets, red

maple-hardwood swamps, and at least one hemlock-hardwood swamp. Pitch pine-oak-heath rocky summits often occur on the mountain summits and shoulders, and on steep, south and west-facing,

rocky slopes. There are small patches of Appalachian oak-hickory forest in some

REPTILES

Crotalus horridus

Office Use

Timber Rattlesnake NY Legal Status: Threatened

NYS Rank:

11876

hibernaculum

Federal Listing:

Global Rank: G4 - Apparently secure EO Rank:

ESU

Last Report:

Rockland

County:

Ramapo

Town: Location:

General Quality

At, or in the vicinity of, the project site.

and Habitat:

**For information on the population at this location and management considerations, please contact

the NYS DEC Regional Wildlife Manager for the Region where the project is located.

Page 1 of 2

Natural Heritage Report on Rare Species

NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor, Albany, NY 12233-4757 (518) 402-8935



~The information in this report includes only records entered into the NY Natural Heritage databases as of the date of the report. This report is not a definitive statement on the presence or absence of all rare species or significant natural communities at or in the vicinity of this site.

~Refer to the User's Guide for explanations of codes, ranks and fields.

~We do not provide maps for species most vulnerable to disturbance.

Natural Heritage Report on Rare Species and Ecological Communities



Office Use

9872

ESU

Office Use

7689

ESU

Office Use

7540

ESU

Office Use

401

REPTILES

Crotalus horridus

Rattlesnake

Timber

NY Legal Status: Threatened

hibernaculum and ge Federal Listing:

County:

Town:

Location:

Ramapo

Documented within 1.5 miles of project site. Animals can move 1.5 miles or more from documented locations. For information on the population at this location and management considerations, please contact the NYS DEC

NYS Rank:

NYS Rank:

NYS Rank:

Global Rank:

Global Rank:

Global Rank:

Regional Wildlife Manager for the Region where the project is located.

Crotalus horridus

Timber Rattlesnake NY Legal Status: Threatened

Rockland

Rockland

Ramapo

Rockland

hibernaculum, gestat Federal Listing:

County:

Town:

Location:

more from documented locations. For information on the population at this location and management considerations, please contact the NYS DEC

Regional Wildlife Manager for the Region where the project is located.

Documented within 1.5 miles of project site. Animals can move 1.5 miles or

Crotalus horridus

Timber

Rattlesnake

hibernaculum

Federal Listing:

County:

Location:

Ramapo Town:

NY Legal Status: Threatened

Documented within 1.5 miles of project site. Animals can move 1.5 miles or more from documented locations. For information on the population at this

location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located.

Crotalus horridus

Timber Rattlesnake

hibernaculum

NY Legal Status: Threatened

NYS Rank:

S3 - Vulnerable

S3 - Vulnerable

S3 - Vulnerable

S3 - Vulnerable

G4 - Apparently secure

G4 - Apparently secure

G4 - Apparently secure

Global Rank: G4 - Apparently secure

ESU

County: Rockland

Federal Listing:

Ramapo

Town: Location:

Documented within 1.5 miles of project site. Animals can move 1.5 miles or more from documented locations. For information on the population at this location and management considerations, please contact the NYS DEC

Regional Wildlife Manager for the Region where the project is located.

August 04, 2011

Natural Heritage Report on Rare Species and Ecological Communities



Crotalus horridus

Timber Rattlesnake NY Legal Status: Threatened

NYS Rank:

S3 - Vulnerable

Office Use 2271

Federal Listing:

Global Rank:

G4 - Apparently secure

ESU

County:

Rockland

Town:

Ramapo

Location:

Documented within 1.5 miles of project site. Animals can move 1.5 miles or more from documented locations. For information on the population at this location and management considerations, please contact the NYS DEC

Regional Wildlife Manager for the Region where the project is located.

Crotalus horridus

Timber Rattlesnake NY Legal Status: Threatened

NYS Rank:

S3 - Vulnerable

Global Rank: G4 - Apparently secure

Office Use 11228

ESU

Federal Listing:

County:

Rockland

Town:

Ramapo

Location:

Documented within 1.5 miles of project site. Animals can move 1.5 miles or

more from documented locations. For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located.

Crotalus horridus

Timber Rattlesnake

NYS Rank:

S3 - Vulnerable

Office Use 11724

hibernaculum Federal Listing:

Rockland

Global Rank:

G4 - Apparently secure

ESU

County: Town:

Ramapo

Location:

Documented within 1.5 miles of project site. Animals can move 1.5 miles or more from documented locations. For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located

Office Use

Crotalus horridus

Timber Rattlesnake NY Legal Status: Threatened

NY Legal Status: Threatened

NYS Rank:

Global Rank:

S3 - Vulnerable

G4 - Apparently secure

9515 **ESU**

hibernaculum and ge Federal Listing:

Rockland

County: Town:

Ramapo

Location:

Documented within 1.5 miles of project site. Animals can move 1.5 miles or more from documented locations. For information on the population at this

location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located.

Crotalus horridus

Timber Rattiesnake NYS Rank:

S3 - Vulnerable

Office Use 11876

ESU

Global Rank: G4 - Apparently secure Federal Listing:

hibernaculum

Rockland

NY Legal Status: Threatened

County: Town:

Ramapo

Location:

Documented within 1.5 miles of project site. Animals can move 1.5 miles or more from documented locations. For information on the population at this location and management considerations, please contact the NYS DEC

Regional Wildlife Manager for the Region where the project is located.

Crotalus horridus

Timber Rattlesnake hibernaculum NY Legal Status: Threatened

NYS Rank:

S3 - Vulnerable

Global Rank: G4 - Apparently secure

Office Use 11995

ESU

Federal Listing:

County:

Rockland

Town:

Ramapo

Documented within 1.5 miles of project site. Animals can move 1.5 miles or Location:

more from documented locations. For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located.

New York State Department of Environmental Conservation Division of Environmental Permits, Region 3

21 South Putt Corners Road, New Paltz, New York 12561-1620

Phone: (845) 256-3054 FAX: (845) 255-4659

Website: www.dec.ny.gov



October 4, 2011

Erich Zimmerman, P.E. Arcadis US, Inc. 17-17 Route 208 North, 2nd Floor Fair Lawn, NJ 07410

Re:

Ford Ramapo Remedial Project

Ramapo River NYS Water Index No. NJ-12, Class A

Town of Ramapo, Rockland County

CH # 3729

Notice of No Jurisdiction

Dear Mr. Zimmerman:

The New York State Department of Environmental Conservation (DEC or Department) has reviewed the information you provided regarding the above referenced project. This information was received by this office on September 26, 2011 and consisted of a Wetland Delineation Repot dated September 2011. According to the information provided, the proposed project involves the remedial excavation of paint sludge from four locations within Operable Unit 1 (OU-1). OU-1 is located on the eastern side of the NYS Thruway and immediately west of the Ramapo River (NYS Water Index No NJ-12, Class A).

Based upon review of the information provided, there will be no disturbance to the bed or banks of this protected stream, nor will there be any excavation or fill conducted within the waterbody. In addition, no NYS regulated freshwater wetlands were identified within the proposed work area. Therefore, a permit will not be required from the Department for this activity as currently proposed. Please be aware that although a permit is not required, you are still responsible for ensuring that work shall not pollute any stream or waterbody. Care shall be taken to stabilize any disturbed areas promptly after construction, and all necessary precautions shall be taken to prevent contamination of the stream or waterbody by silt, sediment, fuels, solvents, lubricants, paint sludge or any other pollutant associated with the project. This typically includes the installation and maintenance of appropriate erosion and sediment controls until the project is completed.

Individual Section 401 Water Quality Certification

Please be aware that if a permit is required from the Army Corps of Engineers (ACOE) for this activity, an individual Section 401 Water Quality Certification will be required from the Department.

Re: Ford Ramapo Remedial Project

Ramapo River NYS Water Index No. NJ-12, Class A

Town of Ramapo, Rockland County

CH # 3729

Notice of No Jurisdiction

If significant modifications are proposed to the above referenced scope of work, please contact the Department for additional review. This determination will remain valid for one year. If you have any comments or questions, please feel free to contact me at (845) 256-3041.

Sincerely,

John W. Petronella Environmental Analyst

Division of Environmental Permits

Cc Steve Ryba, US ACOE David Crosby, DEC CO William Bennett, DEC CO



DEPARTMENT OF THE ARMY

NEW YORK DISTRICT, CORPS OF ENGINEERS JACOB K. JAVITS FEDERAL BUILDING NEW YORK, N.Y. 10278-0090

REPLY TO ATTENTION OF:

CENAN-OP-RE

DATE: OCT 1 1 2011

SUBJECT: Permit Application File Number NAN-2011-01135-ESO

by Arcadis

MEMORANDUM FOR: Arcadis, 17-17 Route 208 North, Fairlawn, NJ 07410

- 1. This office has received your application for a Department of the Army permit; and in accordance with Title 33 of the Code of Federal Regulations Part 325.2(a)(1) it has been assigned the 18-character application file number shown above. To avoid misfiled and lost correspondence, please put this unique 18-charater application number on all correspondence, (mail, fax, and e-mail) regarding this application.
- 2. Your application file is assigned to application reviewer / project manager: Ahmed Soliman, 917-790-8518
 Our facsimile machine number is 212-264-4260.
- 3. In accordance with Title 33 of the Code of Federal Regulations Part 325.2, within fifteen business days of the date of this acknowledgement memorandum, you, or your permit application agent, should be receiving via facsimile machine correspondence specifying what additional items or information, if any, must be submitted to the application reviewer in order for this office to find your permit application "complete for Federal processing".
- 4. The Corps of Engineers strives to make a final permit application decision as soon as reasonably possible. For example, for non-controversial individual Standard Permit applications, the USACE National Performance goal is to make that decision within 120 calendar days of our receipt of the final item or information which makes the specific permit application file "complete for Federal processing".
- 5. You are advised not to undertake any activity in regulated waters and/or wetlands of the United States until after you have received the required Department of the Army permit.

EASTERN PERMITS SECTION REGULATORY BRANCH

Copy Furnished to:

Arcadis

Attn: Eric Zimmerman Fax Number 201-797-7400



Andrew M. Cuomo Governor

Rose Harvey
Commissioner

New York State Office of Parks, Recreation and Historic Preservation

Historic Preservation Field Services Bureau • Peebles Island, PO Box 189, Waterford, New York 12188-0189 518-237-8643

www.nysparks.com

October 26, 2011

Erich Zimmerman Arcadis 17-17 Route 208 North Fair Lawn, New Jersey 07410

Re:

DEC

Operable Unit 1 (OU-1) of the Ramapo Paint

Sludge Site

Torne Valley Rd/RAMAPO, Rockland County

11PR05740

Dear Mr. Zimmerman:

Thank you for requesting the comments of the Field Services Bureau of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the Field Services Bureau and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the OPRHP's opinion that your project will have No Impact upon cultural resources in or eligible for inclusion in the State and National Register of Historic Places.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

Ruth L. Pierpont

Deputy Commissioner for Historic Preservation

who . Ruport



COUNTY OF ROCKLAND

DRAINAGE AGENCY

Division of the Highway Department

23 New Hempstead Road New City, New York 10956 (845) 638-5081 Fax. (845) 708-7116 Email: highway@co.rockland.ny.us

CHARLES H. VEZZETTI Superintendent of Highways Chairman, Drainage Agency

VINCENT ALTIERI
Executive Director

December 19, 2011

C. SCOTT VANDERHOEF

County Executive

ARCADIS U.S., Inc., 17-17 Route 208 North, 2nd Floor Fair Lawn, New Jersey 07410 Attention: Erich Zimmerman, P.E.

Re: Ramapo Paint Sludge Site-Operation Unit 1 (OU-1)

Section 47.07, Block 1, Lots 4 & 5 Section 47.11, Block 1, Lot 1.4 Section 39.19, Block 1, Lots 7.1 Town of Ramapo Tax Map Resource: Ramapo River

Dear Mr. Zimmerman:

The Rockland County Drainage Agency ("RCDA") has reviewed the Stormwater Pollution Prevention Plan (SWPPP) report for the OU-1 Remediation Project, report prepared by the ARCADIS U.S. Inc, dated September 2011.

As indicated in the previous RCDA letter dated October 6, 2011, the sites have been determined to be within the jurisdiction of the RCDA. However, the proposed activity for an interim remedial measure (IRM) to remove paint sludge from the site does not require a permit from the RCDA, pursuant to the Rockland County Stream Control Act. Please be advised that any future improvements at the above referenced sites may require a permit from the RCDA, pursuant to the Rockland County Stream Control Act.

The Soil Erosion and Sediment Control Plans and details included with the SWPPP have been reviewed and the RCDA has no further comments. Please be further advised that the Town of Ramapo land use boards and /or municipal departments have the authority to ensure that the proposed Soil Erosion and Sediment Control Plans and details included with the SWPPP are consistent with New York State Department of Environmental Conservation guidelines and are implemented during the proposed activity.

Please contact Shajan Thottakara, P.E. of the RCDA at (845) 638-5081 if you have any questions regarding this matter.

Very truly yours,

Vincent Altieri

Rockland County Drainage Agency

cc: Shajan Thottakara, P.E., RCDA

Rockland County Planning Department

Anthony Mallia, Director-OBZPAE & Town of Ramapo Floodplain Administrator

New York State Department of Environmental Conservation Division of Environmental Remediation

Remedial Bureau C, 11th Floor

625 Broadway, Albany, New York 12233-7014 **Phone:** (518) 402-9662 • Fax: (518) 402-9679

Website: www.dec.ny.gov

Transmitted via e-mail and US Mail



October 23, 2012

Mr. Mohamed Zakar Senior Environmental Engineer Environmental Quality Office Ford Motor Company Fairline Plaza North, Suite 800 290 Town Center Drive Dearborn, MI 48126

Re: Interim Remedial Measure Work Plan for Paint Sludge Removal within Operable Unit 1 Ramapo Paint Sludge Site, Site No. 3-44-064, Town of Ramapo, Rockland County

Dear Mr. Zakar,

The New York State Department of Environmental Conservation (Department) in consultation with the New York State Department of Health (NYSDOH) is in receipt of the Interim Remedial Measure (IRM) Work Plan for Paint Sludge Removal within Operable Unit 1 (OU-1) dated August 24, 2012 prepared by ARCADIS on behalf of Ford Motor Company (Ford). The document is certified as required by 6 NYCRR Part 375 in accordance with DER-10 Section 1.5 by a certification received from ARCADIS on October 17, 2012. In accordance with 6 NYCRR Part 375-1.6(d)(3) the IRM work plan is hereby approved with the following modifications.

Modification 1, Access Agreements: Ford shall provide to the Department, and amend to the IRM work plan, the fully executed access agreements from both the Town of Ramapo (the site owner) and United Water (holder of utility easement) prior to the start of any activities associated with the IRM for OU-1.

Modification 2, Joint Permit Application: Ford must provide to the Department, and amend to the IRM work plan, the documentation of acceptance and approval by the United States Army Corps of Engineers (USACOE) of Ford's Pre-Construction Notification for Nationwide Permit #38 prior to any activities associated with the IRM for OU-1 within 20 feet of the bank of the Ramapo River or within the stream bank of the Ramapo River.

Modification 3, Stream Bank Excavation & Restoration Design: In addition to the documentation of federal acceptance for the stream bank portion of the remedy discussed in Modification #2, the Department has additional requirements for the disturbance and restoration of stream banks, as per (New York State Environmental Conservation Law (ECL) Article 15. Based on a review of the IRM work plan it is the Department's determination that the design details provided in the IRM work plan for the excavation and restoration of the Ramapo River

stream bank do not sufficiently demonstrate how the excavation and restoration of the stream bank will meet the requirements of Article 15. Therefore, any activities associated with the IRM for OU-1 within 20 feet of the bank of the Ramapo River or within the stream bank of the Ramapo River must not be undertaken until a supplemental Stream Bank Excavation & Restoration Design is provided to, reviewed, and approved by the Department.

The Stream Bank Excavation & Restoration Design shall meet the substantial requirements of Article 15 and utilize the Shoreline Stabilization guidance provided by the Department at: http://www.dec.ny.gov/permits/50534.html. Based on the Department's review, details which were lacking in the IRM work plan regarding stream bank excavation and restoration include but are not limited to: dewatering of the stream bank excavation area (see Modification 5 below), the inconsistency of backfilling excavations within one day with natural stream bank restoration techniques, the physical properties and depth of soils to be placed on the restored stream bank, the details on the natural and organic materials that will be used to stabilize the stream bank, and cross sectional and plan view diagrams detailing placement of restoration materials.

Ford shall submit to the Department within 30 days of receipt of this letter a Stream Bank Excavation & Restoration Design meeting the requirements outlined above.

Modification 4, Backfill: The IRM work plan indicates that excavations may be backfilled with Number 2 stone, bank run or sand in accordance with DER-10 Section 5.4. The IRM work plan does not specify a sufficient thickness or geochemical properties of topsoil to support the vegetation required by the Attachment 4A Site Restoration Plan.

Therefore, prior to the placement of any backfill on-site Ford shall provide documentation to the Department subject to Department approval that the backfill meets the requirements of DER-10 Section 5.4 and that backfill which will be placed in the root zone of upland areas or along the stream bank has the correct geochemical properties to support the vegetation specified by the IRM work plan Attachment 4A Site Restoration Plan. In conjunction with Modification 3, any backfill placed within 20 feet of the stream bank must meet the Department's unrestricted soil cleanup objectives found in Part 375-6.8(a).

Additionally, due to the nature of the restoration plan for the site, the top 1 foot of backfill in upland areas must be topsoil that meets the Department's protection of ecological resources soil cleanup objectives found in Part 375-6.8(b). The Department will evaluate backfill sources to be placed in upland areas at depths below one foot based on the ecological resources soil cleanup objectives found in Part 375-6.8(b), with the goal of meeting these SCOs.

Modification 5, Dewatering: The IRM work plan states that water will be removed from open excavations, managed and treated subject to Department standards. This procedure is reiterated in a letter provided in Attachment 4D. This procedure is inconsistent with the Impacted Water Management & Dewatering Plan included with the Attachment 4D letter and does not include the required specifications for dewatering during excavation of the stream bank adjacent to the Ramapo River.

As indicated in Modification 3, a methodology for dewatering for the purposes of completing the stream bank restoration (how water will be removed and enter the storage and treatment system) must be provided in the Stream Bank Excavation & Restoration Design. The Department accepts the specification provided in the Impacted Water Management & Dewatering Plan of the removal of water to a depth of 2 feet below excavated surfaces for excavation in the stream bank, but the method by which this water level will be accomplished must be provided.

For the dewatering of upland excavations, the Department also accepts the specification provided in the Impacted Water Management & Dewatering Plan of the removal of water to a depth of two feet beneath soil to be excavated, but Ford must specify whether internal or external sumps will be utilized to accomplish this level of dewatering. The text of the work plan indicates water will be removed from excavations while the Impacted Water Management & Dewatering Plan specifies sumps surrounding areas to be excavated. If exterior sumps are used, excavations for these sumps shall be carefully inspected for paint sludge with discovered paint sludge managed appropriately, and the number of sumps shall be limited to four per excavation area unless an alternative plan is submitted to and approved by the Department. No sumps shall be placed within 20 feet of the Ramapo River bank.

Modification 6, Stream Bank Restoration Area: The area of stream bank restoration shall include impacted areas of the Ramapo River stream bank as well as all impacted areas within 20 feet of the Ramapo River stream bank. Based on the current remedial design this includes 10,022 square feet (.23 acres) depicted in Attachment 2C – Drawing 6. This area is incorrectly identified in Attachment 4A – Site Restoration Plan as 0.06 acres in Section 3.2 and 0.15 acres on Sheet 1 of 2.

Modification 7, EDD: All analytical soil, sediment, and groundwater data collected as part of the IRM will be submitted to the Department in EDD format.

Modification 8, Reclaimed or Recycled Concrete: No reclaimed or recycled concrete shall be used for backfill, the construction of temporary construction roads, stabilized construction entrances, decontamination pads or other construction infrastructure without analytical sampling in accordance with DER-10 Section 5.4.

Modification 9, Deer Exclusion Fence: Bi-annual monitoring of the restored site will include an assessment of whether the deer exclusion fence is still necessary or if it may be removed. The deer exclusion fence must be removed once suitable restoration conditions have been achieved.

Modification 10, Weekly Status & Meeting: Ford will provide the Department and NYSDOH with a weekly status report summarizing work completed in the previous week and work to be completed the following week. The weekly report will include a summary of CAMP data for the previous week. The weekly status report will be reviewed and discussed at a weekly construction meeting scheduled once per week and attended by Ford, the Department, and a representative from all principal contractors, consultants, and observers.

Please place the IRM work plan, the October 17, 2012 certification, and this modification letter into the document repositories for this site. In additional the modifications described above

require supplemental documents be prepared prior to work on certain aspects of the project. These documents include the two access agreements referenced in Modification 1, the Joint Permit Application referenced in Modification 2 and the Design Document for Stream Bank Excavation & Restoration Design referenced in Modification 3. These documents must be placed in the document repository for the site as well, once approved by the Department.

In accordance with 6 NYCRR Part 375-1.6(3) should Ford accept the Department's modifications to the work plan, please document this acceptance in writing within 15 days of receipt of this letter. In your letter please provide any clarifications requested above as well as a revised project construction schedule (Attachment 5) including dates for supplemental submissions required by modifications, the start date for construction, and date for the preconstruction meeting. Based on the revised schedule, the Department will release a fact sheet to the site's mailing list via the Department's list-serv service approximately two weeks prior to the start of construction announcing the upcoming IRM.

If you have any questions or concerns, please feel free to contact me at (518) 402-9662.

Sincerely,

William Bennett

Environmental Engineer 1

William Bennett

Remedial Bureau C

Division of Environmental Remediation

ec: A. Perretta/J. Nealon

C. Quinn, Rockland Co. DOH

T. Miller, Rockland Co. DOH

J. Rocklin, ARCADIS

E. Zimmerman, ARCADIS

T. Dzurinko, Town of Ramapo

D. Crosby

BUCK, SEIFERT & JOST, INC.

Shop Drawing Letter Of Transmittal

dba BS&J Engineers, P.C. 65 Oak Street, P.O. Box 415 Norwood, NJ 07648 (201) 767-3111 Fax (201) 767-3178

Date: January 18, 2013

Job No.: 420.176

Re: United Water New York

RVWF 97 Ford Paint Sludge

BS&J Shop Drawing Reference No.: 2.00 BS&J Shop Drawing Box File Number: 548

To: Mr. Paul Bracken

Senior Environmental Engineer

Arcadis U.S., Inc..

10 Friends Ln. Suite 200 Newtown, PA. 18940

Buck, Seifert & Jost, Inc. acknowledges receipt of the following drawings and/or information submitted for acceptance with your E-mail of January 18, 2013.

Enclosed are:

Sub. No.	<u>Drawing No</u> .	Rev. No.	<u>Manufacturer</u>	<u>Description</u>	Copies Sub.	Copies Ret.	BS&J Action	<u>See</u> <u>Remarks</u>	BS&J Index No.
1	Submittal No.10d	0	Tilcon NY West Nyack Pit	Tracking Sand Material/Certificate	1	1	NET		201

Drawings marked "No Exceptions Taken" (NET) are accepted as to general conformance with the design, assuming no responsibility for dimensions and details and modifying no portion of the contract requirements. Drawings marked "Make Corrections Noted" (MCN) cover minor corrections and need not be resubmitted. Drawings marked "Revise and Resubmit" (RAR) are to be corrected and resubmitted for acceptance. Drawings marked "Rejected" (R) are not accepted, drawings of an acceptable substitute shall be resubmitted. Drawings marked "For Information Only" (FI) are accepted for our reference only.

Remarks:

Very truly yours,

BUCK, SEIFERT & JOST, INC.

dba-BS&J Engineers, P.C

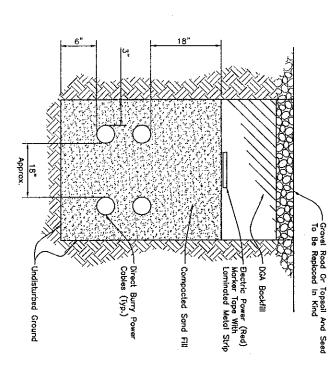
Jonelle von Autenried, P.E.

Xice President

Bill Prehoda, P.E., UWNY (w/1 copy)BS&J Field (w/1 copy)BS&J Dwg. File (w/1 copy)

S:\420.176_RVWF 97 Ford Paint Sludge\Index No. 201\420.176_Shop Drawing Transmittal Letter 2.doc

		SUBMITTAL COVER S	SHEET	
Submittal No.: _	10d			
PROJECT:		Contract No.	EQF04-001 WW	<u> </u>
OU-1 Remediat	ion Project	Contractor:	Arcadis	
Bridge Street			EQ NORTHEA	ST, INC.
Rockland Coun	ty		185 INDUSTRI	AL ROAD
Ramapo, NY			WRENTHAM,	MA 02093
Engineers Project No.: NJ000602.0003.00002 Date of Initial Submittal: 01/16/13		_	H82100	
			Tilcon Materia	als NY
SUBMITTAL D Track Title: 01/16	king Sand material/ certific	cate		
Manufacturer/Su REFERENCES: Spec Section(s):	and Fill / Utility Easement Applier: Tilcon NY West United Water Memo r(s): B, S & J Figure 420.1	Nyack Pit Paragraph(s):	
	CONTRACTOR'S STAM	<u> 11 </u>	ENGINEER'S	<u>S STAMP</u>
Name:	John Geary		Approved	Buck, Seifert & Jost, Inc. dba B S & J Engineers, P.C.
Signature:		. [Not-Approved	-
Company:	EQ NORTHEAST, INC	<u>. </u>	Name:	Revise and Resubmit
Date:	01/16/13		Date:	For Information OnlyL
	The alaskanis	varaion of this document is the	o controlled	Engineer's review is for general conformance with the design concept and contract documents. Markings or comments or the lack thereof shall not be construed as relieving the Contractor from compliance with the Contract Documents. The Contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication processes, for techniques of construction, for performing his work in a safe manner, and for coordinating the work of all trades. BS&J Reference. No. 2.00 Submission No. 1
	Each user is responsible for	rersion of this document is th ensuring that any document	being used is the	· · · · · · · · · · · · · · · · · · ·



Pipe Dia.

DIRECT BURRY POWER CABLE TRENCH DETAIL

Scale: None



Test Pits Shall Be Used To Locate And Mark UNINY Facilities including Pipes And Power Cables.

Di g

Undisturbed Ground

- Road Plates Shall Be Provided Over Existing Pipes And Power Cables Where Cover is Less Than 3 Feet And Vehicle Access is Required.
- Prior To Completion Of Backfilling, "WATER LINE BELOW" Marking Tape Shall Be Placed Along The Entire Length Of The Excavation A Minimum Of 2 Feet Above The Top Of The Pipe.

WATER MAIN TRENCH DETAIL

Scale: None

Gravel Road Or Tapsoil And Seed To Be Replaced In Kind

→ DGA Backfill

- Marker Tape See Note 3

Flowable Fill Backfill

From: William Bennett [wbbennet@gw.dec.state.ny.us]

Sent: Friday, April 19, 2013 9:05 AM

To: Rocklin, Jon

Subject: Re: Ramapo Air Samples

Jon,

A brief summary in the weekly agenda should suffice, noting that the readings being obtained are in background samples and are have not been detected historically in material being disturbed at the site.

Bill

William B. Bennett III, P.E.
Environmental Engineer 2
Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7014
Phone: (518) 402-9662
Fax: (518) 402-9679

>>> "Rocklin, Jon" <<u>Jon.Rocklin@arcadis-us.com</u>> 4/18/2013 12:25 PM >>>

Bill - How would you like to handle the air samples from Ramapo?

We have lots of hits and a few exceedances just over the standards as we discussed at the Site last week.

All the same constituents have shown up in the background air samples as well.

Thank you, Jon

Jon Rocklin | Project Manager | jon.rocklin@arcadis-us.com

ARCADIS U.S., Inc. | 17-17 Route 208 North, 2nd Floor | Fair Lawn, NJ 07410 Direct: 201.398.4364 | Fax: 201.797.4399 | Cell 914.260.7373

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Remember that it's everyone's responsibility to make sure no one gets hurt.



. Please consider the environment before printing this e-mail



From: William Bennett [wbbennet@gw.dec.state.ny.us]

Sent: Friday, April 19, 2013 9:09 AM

To: Rocklin, Jon

Subject: Re: Ford Ramapo - Tree Stumps

Jon,

The Department approves the disposition of non-impacted tree stumps to the facilities listed below. Please be sure that stumps are thoroughly inspected for paint sludge, and that each load of tree stumps leaving the site is documented in some way.

Bill

William B. Bennett III, P.E. Environmental Engineer 2 Remedial Bureau C Division of Environmental Remediation New York State Department of Environmental Conservation 625 Broadway Albany, NY 12233-7014

Phone: (518) 402-9662 Fax: (518) 402-9679

>>> "Rocklin, Jon" <<u>Jon.Rocklin@arcadis-us.com</u>> 4/16/2013 10:28 AM >>>

Bill – We would like to ship the tree stumps off-site to the facilities below. Before anything leaves the site, it will be given a thorough inspection for paint sludge.

Please provide DEC approval or let me know if you would like to discuss further.

Thank you, Jon

From: Mark Baron [mailto:Mark.Baron@egonline.com]

Sent: Tuesday, April 09, 2013 9:26 AM

To: Bracken, Paul

Cc: John Geary; Rocklin, Jon; Zimmerman, Erich; Chris Brady

Subject: Re: Tree Stumps to the Non Haz Local

Hello

United Sanitation Services, Inc. 114 Washington St. Bloomfield, NJ 07003 is the roll off supplier

and

Reliable Wood Products 1 Cavin Point Avenue Jersey City, NJ 07305 is the recycler

Sent from my iPhone

Mark Baron EQ 716-901-3410

From: William Bennett To: Rocklin, Jon

Cc: Crosby, David; Mastrocola, Krista

Re: Ford Ramapo OU-1 - Soil PE samples June 2013 Subject:

Date: Monday, July 08, 2013 11:32:03 AM

ATT00001 Attachments:

ATT00003

Hi Jon.

Manganese in the subsurface soil is not related to paint sludge or a contaminant of concern, therefore further excavation is not required. Please note, subsurface soil confirmation samples should be compared to the protection of groundwater SCOs.

Bill

William B. Bennett III, P.E. **Environmental Engineer 2** Remedial Bureau C Division of Environmental Remediation New York State Department of Environmental Conservation 625 Broadway Albany, NY 12233-7014 Phone: (518) 402-9662 Fax: (518) 402-9679 >>> "Rocklin, Jon" <Jon.Rocklin@arcadis-us.com> 7/8/2013 9:00 AM >>> Bill -

Good morning. Hope you had a good weekend.

Below is an email from Krista outlining some of the post excavation soil sample results we have received back last week.

We have 4 additional exceedances.

2 for Manganese and 2 for some PAHs.

Would like to get your thoughts on the need to re-excavate for the Mang exceedances.

Thank you,

Jon

Jon Rocklin | Project Manager | jon.rocklin@arcadis-us.com

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Direct: 201.398.4364 | Fax: 201.797.4399 | Cell 914.260.7373

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From: Mastrocola, Krista

Sent: Tuesday, July 02, 2013 2:40 PM

To: Rocklin, Jon

Cc: Bracken, Paul; Cifelli, Christin

Subject: FW: Ramapo - Soil PE samples June 2013

Jon,

Since June 1st, we have had 4 additional post-excavation sample exceedances to bring our total up to 6 exceedances. **The first two exceedances have been re-excavated and sampled.**

The additional exceedances are up for discussion (see attached table)

- PE-P1-West-13B and PE-P1 West-14SW with manganese exceedances of 3100 and 3050 ppb, respectively. This is above the restricted residential limit of 2000 ppb.
- PE-P1-East-5SW and PE-P1-East-6SW with BAA, BAP, BBF and Indeno.

These locations are shown on the as-builts you forwarded along earlier.

-Krista 610.755.7080

Mastrocola, Krista

From: William Bennett <wbbennet@gw.dec.state.ny.us>

Sent: Thursday, July 11, 2013 11:10 AM
To: Mastrocola, Krista; Rocklin, Jon
Cc: Bracken, Paul; Crosby, David

Subject: RE: Ford Ramapo OU-1 - Soil PE samples June 20 13

Attachments: IRM WP Confirmatory Sampling.pdf

Hello Krista,

Sampling locations with exceedences for PAHs in surface soil and Xylene in subsurface soil should be excavated further. The top two feet of soil at the site must meet restricted-residential SCOs, and Xylene is a known contaminant in paint sludge.

Sampling locations with exceedences for Acetone and 2-Butanone only in subsurface soil do not need to be excavated further. These exceedences are marginal and are acceptable to be left in place.

Attached please find pages 18 and 19 of the approved IRM WP. On page 19 it states that, "Post-excavation sample results will be compared to the soil cleanup objectives for restricted residential SCOs for excavation depths less than two feet bgs and to protection of groundwater SCOs if excavation depth is greater than two feet bgs in order to determine if additional excavation is required."

Let me know if you have any questions or concerns. Thanks.

Bill

>>> "Mastrocola, Krista" < Krista. Mastrocola@arcadis-us.com > 7/10/2013 7:44 AM >>>

Bill,

The approved OU-1 IRM Work Plan and subsequent response to comment letters stated that all post excavation soil samples would be compared to residential standards and then restricted residential standards based on the access agreement with the Town. With that said, all data collected has now been compared to the Protection of Groundwater SCO's as requested by the NYSDEC in the email chain below and the following exceedances were noted (see below and the attached excel table):

Sample ID	Constituent of Concern	Restricted Residential Standard (ppm)	Protection of GV	
PE-P1-East-5SW(0.5-1)	BAA	1	1	
	BAP	1	22	
	BBF	1	1.7	
	Chrysene	3.9	1	
	Indeno	.5	8.2	
PE-P1-East-6SW(0.5-1)	BAA	1	1	
	BAP	1	22	
	BBF	1	1.7	
	Chrysene	3.9	1	
	Indeno	.5	8.2	
PE-P1-West-13B(5-5.5)	Manganese	<mark>2000</mark>	<mark>2000</mark>	
PE-P1-West-14SW(3.5-4)	Manganese	<mark>2000</mark>	<mark>2000</mark>	
PE-P1-West-18B(7-7.5)	Acetone	100	0.05	
PE-P1-West-19B(7-7.5)	Acetone	100	0.05	
PF-P2-6B(8 5-9)	Acetone	100	0.05	

PE-P2-14SW(2.5-3)	2-Butanone	100	0.12
	Acetone	100	0.05
PE-P3-Cell47-3B(6-6.5)	<mark>Acetone</mark>	<mark>100</mark>	<mark>0.05</mark>
PE-P3-East-1B(6-6.5)	Acetone	100	0.05
	Xylene	100	1.6

One exceedances for the Protection of GW is within the utility corridor and therefore not accessible. Additionally, we will not chase the manganese as stated by NYSDEC in the email chain below.

However, we need to confirm that we will be required to chase the VOCs and PAHs outlined above. For referencing the location of these exceedances, please refer to the attached PDFs:

- Green Rectangle Exceedances Excavated to Date
- Yellow Rectangle Exceedances Not Requiring Excavation (See below)
- Red Rectangle- Exceedances Noted, Need to determine Excavation Requirement

Please call me at 610.755.7080 with any questions or concerns. We would like to complete these re-excavations by the end of the week pending weather.

Thanks.

-Krista

Krista Mastrocola | Civil Engineer II | krista.mastrocola@arcadis-us.com

ARCADIS U.S., Inc. | 44 South Broadway, 15th Floor | White Plains, NY 10601 T: 914.641.2631 | M: 610.755.7080



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Please consider the environment before printing this email.

From: Rocklin, Jon

Sent: Monday, July 08, 2013 2:35 PM

To: 'William Bennett'

Cc: 'dacrosby@gw.dec.state.ny.us'; Mastrocola, Krista; Bracken, Paul **Subject:** FW: Ford Ramapo OU-1 - Soil PE samples June 2013

Bill – The approved OU-1 IRM Work Plan and subsequent response to comment letters stated that all post excavation soil samples would be compared to residential standards and then restricted residential standards based on the access agreement with the Town.

With that said, we have compared the data to the protection of groundwater SCO's and the changes were minimal (see below and the attached excel table).

We will follow-up with the lab and look at the field blank data as the acetone should/could be from the lab.

See yellow highlighted text below.

We should be completing all excavation and re-excavation work this week.

Thank you,

Jon

From: Mastrocola, Krista

Sent: Monday, July 08, 2013 2:24 PM

To: Rocklin, Jon

Cc: Cifelli, Christin; Bracken, Paul

Subject: RE: Ford Ramapo OU-1 - Soil PE samples June 2013

Jon,

As per Bill's email below, I have requested data validation add the "Protection of Groundwater SCOs" to the Post Excavation Table to allow us to cross-reference if any exceedances were missed.

I have already completed this task for the "Results" not previously outlined on the Post Excavation Table. As noted, we still have the exceedances outlined below (previous email), as well as the following:

• Exceedances of Acetone for PE-P1-West-18B (7-7.5), PE-P1-West-19B(7-7.5) and PE-P2-14SW(2.5-3) at 139, 211 and 171 J ppb, respectively. The Protection of GW Standard is 50 ppb.

Additionally, there was one additional SVOC that was above the Protection of GW Standard for two of the samples previously noted:

• Exceedances of Chrysene for PE-P1-East-5SW(05.-1) and PE-P1-East-6SW(0.5-1) at 1230 and 1260 ppb, respectively. The Protection of GW standard is 500 ppb.

Although NYSDEC stated, we will not chase the manganese. We need to confirm, if we will need to chase the PAHs and Acetone. For referencing the exceedances, please refer to the attached PDF:

- Green Rectangle Exceedance Excavated
- Yellow Rectangle Exceedance Not Requiring Excavation (See below)
- Red Rectangle- Exceedance Determination of Excavation Required

Thanks.

-Krista

610.755.7080

From: William Bennett [mailto:wbbennet@gw.dec.state.ny.us]

Sent: Monday, July 08, 2013 11:32 AM

To: Rocklin, Jon

Cc: Crosby, David; Mastrocola, Krista

Subject: Re: Ford Ramapo OU-1 - Soil PE samples June 2013

Hi Jon,

Manganese in the subsurface soil is not related to paint sludge or a contaminant of concern, therefore further excavation is not required. Please note, subsurface soil confirmation samples should be compared to the protection of groundwater SCOs.

Bill

Bill -

William B. Bennett III, P.E.
Environmental Engineer 2
Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7014
Phone: (518) 402-9662
Fax: (518) 402-9679
>>> "Rocklin, Jon" <Jon.Rocklin@arcadis-us.com> 7/8/2013 9:00 AM >>>

Good morning. Hope you had a good weekend.

Below is an email from Krista outlining some of the post excavation soil sample results we have received back last week.

We have 4 additional exceedances.

2 for Manganese and 2 for some PAHs.

Would like to get your thoughts on the need to re-excavate for the Mang exceedances.

Thank you, Jon

Jon Rocklin | Project Manager | jon.rocklin@arcadis-us.com

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From: Mastrocola, Krista

Sent: Tuesday, July 02, 2013 2:40 PM

To: Rocklin, Jon

Cc: Bracken, Paul; Cifelli, Christin

Subject: FW: Ramapo - Soil PE samples June 2013

Jon,

Since June 1st, we have had 4 additional post-excavation sample exceedances to bring our total up to 6 exceedances. **The first two exceedances have been re-excavated and sampled.**

The additional exceedances are up for discussion (see attached table)

- PE-P1-West-13B and PE-P1 West-14SW with manganese exceedances of 3100 and 3050 ppb, respectively. This is above the restricted residential limit of 2000 ppb.
- PE-P1-East-5SW and PE-P1-East-6SW with BAA, BAP, BBF and Indeno.

These locations are shown on the as-builts you forwarded along earlier.

-Krista 610.755.7080

Rocklin, Jon

From: William Bennett <wbbennet@gw.dec.state.ny.us>

Sent:Monday, July 22, 2013 8:58 AMTo:Rocklin, Jon; Mohamed (M.)' 'ZakkarCc:Mastrocola, Krista; David Crosby

Subject: Re: Ford Ramapo Re-Excavation Soil Data

Jon,

The Department does not require further excavation based on the marginal exceedences of SCOs in these samples.

Bill

William B. Bennett III, P.E.
Environmental Engineer 2
Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7014
Phone: (518) 402-9662

Phone: (518) 402-9662 Fax: (518) 402-9679

>>> "Rocklin, Jon" <<u>Jon.Rocklin@arcadis-us.com</u>> 7/22/2013 8:16 AM >>>

Bill and Mohamed -

Attached is the data associated with the re-excavation work done south east of well 97 near the riverbank. As you can see we still have slight exceedances of the restricted residential standards for two PAHs. These are the same two PAHs that caused the re-excavation work.

I also included a picture of this area, taken this morning.

We are currently 15-21 feet from the edge/top of riverbank.

We have clean-fill onsite to backfill immediately and can possibly remove a little more soil and re-sample, but we are getting into the actual 20 feet of the riverbank. Thoughts?

The balance of the surface scrape analytical is due today.

Thank you, Jon

Rocklin, Jon

From: William Bennett <wbbennet@gw.dec.state.ny.us>

Sent: Monday, December 02, 2013 10:16 AM

To: Rocklin, Jon

Subject: Re: Ford Ramapo OU-1 Post Excavation Data- PS1 and PS3

Jon,

No need to go after the point with just Selenium in it, not a COC and under two feet of fill anyway. The one with Barium and Lead though you'll have to dig out.

Bill

William B. Bennett III, P.E.
Environmental Engineer 2
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Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7014
Phone: (518) 402-9662
Fax: (518) 402-9679

>>> "Rocklin, Jon" <<u>Jon.Rocklin@arcadis-us.com</u>> 12/2/2013 10:07 AM >>> Good morning Bill -

Attached is analytical from the surface scrape in PS-1. As you can see, we have samples exceedances (Metals only) in two shallow samples. Sample depth is in sample ID.

Our plan is to re-excavate these two targeted areas and re-sample. We will sample at approx 3 feet bls or just above the utility lines.

Want to confirm DEC approves this approach.

Thank you, Jon

From: Mastrocola, Krista

Sent: Monday, December 02, 2013 8:39 AM

To: Rocklin, Jon **Cc:** Jones, Matthew

Subject: Post Excavation Data- PS1 and PS3

Jon,

Results from post-excavation samples. There were exceedances for metals in PS-1. We need to discuss a plan of action. The excavation is only partially backfilled at this time.

-Krista

Krista Mastrocola | Staff Civil Engineer | krista.mastrocola@arcadis-us.com

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T: 914.641.2631 | M: 610.755.7080

Professional Registration: PE- New York, 092498-1

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Please consider the environment before printing this email.

Rocklin, Jon

From: William Bennett <wbbennet@gw.dec.state.ny.us>

Sent: Monday, December 16, 2013 11:35 AM

To: Rocklin, Jon

Cc: 'mzakkar@ford.com'; David Crosby

Subject: Re: Ford Ramapo OU-1 Post Ex Sample Result -Exceedance

Attachments: PS-1_5SW.xlsx

Jon,

You do not need to excavate any farther based on these sampling results.

Bill

William B. Bennett III, P.E.
Environmental Engineer 2
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New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7014
Phone: (518) 402-9662

Phone: (518) 402-9662 Fax: (518) 402-9679

>>> "Rocklin, Jon" <<u>Jon.Rocklin@arcadis-us.com</u>> 12/16/2013 8:56 AM >>>

Bill - Attached are the post-ex soil sample results from our re-dig where the former exceedances was.

We have a few PAHs just over the standard. I am concerned these will go right to the river's edge.

Should we continue to excavate and re-sample or are we ok?

Thank you, Jon

-----Original Message-----From: Mastrocola, Krista

Sent: Monday, December 16, 2013 8:51 AM

To: Rocklin, Jon Cc: Jones, Matthew

Subject: RE: LabLink distribution report JB54298: Ramapo, NY, sampled on 11/26/2013

Jon,

PS-1 re-dig sample results: Sidewall has PAH impacts just above the standards. Can you please reach out to NYSDEC and confirm if further excavation/sampling is necessary?

Thanks. -Krista

Krista Mastrocola Staff Civil Engineer

T: 914.641.2631 | M: 610.755.7080

Please consider the environment before printing this email.

From: William Bennett

To: Rocklin, Jon; DzurinkoT@ramapo-ny.gov

Cc: mzakkar@ford.com

Subject: RE: Ford Ramapo OU-1 Waste Staging Area. Date: Thursday, April 11, 2013 9:42:47 AM

Jon,

The Department approves of the increase in storage of excavated waste described below.

Bill

William B. Bennett III, P.E. **Environmental Engineer 2** Remedial Bureau C Division of Environmental Remediation New York State Department of Environmental Conservation 625 Broadway Albany, NY 12233-7014 Phone: (518) 402-9662

Fax: (518) 402-9679

>>> Ted Dzurinko <DzurinkoT@ramapo-ny.gov> 04/10/13 4:32 PM >>> Jon.

The Town has no objections to increasing the maximum on site storage of excavated waste from 1, 500 tons to 3,000 tons, or 3 days to 6 days.

The intent was to limit storage to what could reasonably be removed in advance of a major storm.

However, I think that the final approval of a modification of the IRM has to come from DEC.

Ted

From: Rocklin, Jon [mailto:Jon.Rocklin@arcadis-us.com]

Sent: Wednesday, April 10, 2013 12:45 PM

To: Ted Dzurinko

Cc: William Bennett: mzakkar@ford.com

Subject: Ford Ramapo OU-1 Waste Staging Area.

Importance: High

Ted – Now that we are outside of the utility corridor and excavation progress is going much quicker, we would like to request to be able to store more material at the waste staging area (WSA).

Under the current approved plan we can store up to 1,500 tons of material at the WSA. This was based on having a 3 day warning before a potential hurricane style storm and having those 3 days to have all waste in the WSA removed from the Site.

As you have seen at the Site, the waste stream is becoming a steady flow into the WSA and out of the WSA (shipped off site).

We are tracking the weather daily with the day 10 forecast posted in the Site trailer.

The three day period ahead of the storm was being ultra conservative. It really takes a hurricane/tropical storm event to threaten the Site with flooding and we should have a warning of such a storm at least a week before the storm.

With that said, if we can store 1,500 tons with the 3 day warning, I am requesting that we can store up to 3,000 tons knowing that we would have at least a 6 day warning before a possible big storm event.

Even if there is just a possible threat of such a storm, we would stop bringing more waste to the WSA and all focus will be on shipping material off-site.

Please let me know if this is acceptable to the Town.

Thank you,

Jon

Jon Rocklin | Project Manager | jon.rocklin@arcadis-us.com

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Direct: 201.398.4364 | Fax: 201.797.4399 | Cell 914.260.7373

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Please consider the environment before printing this e-mail

Mastrocola, Krista

From: William Bennett <wbbennet@gw.dec.state.ny.us>

Sent: Friday, July 12, 2013 10:52 AM

To: Mastrocola, Krista

Subject: Re: Ford Ramapo OU-1 - Surface Scrape PE Samples

Approved

William B. Bennett III, P.E.
Environmental Engineer 2
Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
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Phone: (518) 402-9662

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>>> "Mastrocola, Krista" < Krista.Mastrocola@arcadis-us.com"> 7/12/2013 10:11 AM >>>

Bill,

As per our conversation this morning, ARCADIS is completing a surface scrape around the perimeter of the previously excavated Paint Sludge Areas at Operable Unit 1 in Ramapo, New York. The area of surface scrape is greater than 40,000 SF; therefore, ARCADIS proposes to collect 1 base sample for every 2,000 SF of surface scrape for VOCs, SVOCs, Metals and PCBs. This would be a modification from the Interim Remedial Measures Work Plan which states 1 per 1.000 SF of base within the excavation.

Please let us know if the NYSDEC accepts this modification. Feel free to contact me at 610.755.7080, if you have any additional questions or concerns regarding this operation.

Thanks.

-Krista

Krista Mastrocola | Civil Engineer II | krista.mastrocola@arcadis-us.com

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Rocklin, Jon

From: William Bennett <wbbennet@gw.dec.state.ny.us>

Sent: Friday, July 26, 2013 3:57 PM

To: Rocklin, Jon Cc: David Crosby

Subject: Re: Ford Ramapo OU-1 Questions

Hello Jon,

- 1) A sample is not needed for the decommissioning of the dissipater pad. Only water with acceptable levels of constituents were discharged to the pad and I am assuming the area was inspected for paint sludge before it was put down.
- 2) The best approach for the waste storage area is to scrape 6 inches of soil and then collect samples. Your quantity of samples is acceptable. Samples should be biased towards the areas where waste was stored with at least one sample collected in each of the storage "bins".
- 3) The town should be consulted prior to the placement of the much and roots/brush in other areas of the site as disturbance of other areas was not part of the work plan. The mulch should be fine to place. For the roots, we need to be 100 % sure there is no paint sludge mixed in with the roots prior to placement.

 Mohamed confirmed Wednesday with me for the post-construction site inspection. See you then.

Bill

William B. Bennett III, P.E.
Environmental Engineer 2
Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
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Albany, NY 12233-7014
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Fax: (518) 402-9679

>>> "Rocklin, Jon" <<u>Jon.Rocklin@arcadis-us.com</u>> 7/26/2013 9:12 AM >>>

Good morning Bill -

As we are wrapping things up in the field, I have some questions for DEC.

- 1. The dissipater pad. We will be removing this from the Site. Do we need to collect soil sampled from this area? A very minimal amount of water was sent to the pad as most was used for dust control.
- 2. The waste storage area. DEC stated they wanted this area scraped 6". If we find the liner to be perfectly intact, do we still need this 6" scrape? Do we need to then collect soil samples from this area? If so, at what frequency. The area is approx 45,000 sq ft so maybe 1 sample per 2,000 feet if required. We do not have any pre-samples from this area and there were signs of non Ford dumping in the area.
- 3. EQ has a small pile of mulch and a small pile of roots/brush on-site. Rather than removing this material from the Site for disposal, could be possibly scatter this material around the Site, between PS-3 and the WSA I am thinking? We could be keeping biomass on Site as opposed to removing. I can send you pics of the piles later today so you can see quantities.

Thank you, Jon

Jon Rocklin | Project Manager | jon.rocklin@arcadis-us.com

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Mastrocola, Krista

From: William Bennett <wbbennet@gw.dec.state.ny.us>

Sent: Thursday, August 22, 2013 2:35 PM

To: Mastrocola, Krista

Cc:Bracken, Paul; David Crosby; Rocklin, Jon; Zakkar, Mohamed (M.)Subject:Re: Ford Ramapo OU-1 - Post Ex Data Associated with the WSA

Krista,

The Department approves of your proposal.

William B. Bennett III, P.E.
Environmental Engineer 2
Remedial Bureau C
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7014

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>>> "Mastrocola, Krista" < Krista.Mastrocola@arcadis-us.com> 8/20/2013 4:52 PM >>>

Bill,

Attached are results from the recent post-excavation samples collected from beneath the Waste Storage Area at Operable Unit 1 in Ramapo, New York. Samples were collected from the 0.5-1.0 foot interval upon completion of the state mandated 6 inch scrape. Post excavation exceedances are summarized below for ease of reference:

Sample ID	COC	Laboratory Result	Restricted Residential
			Standard
SS-WSA-1B (0.5-1.0)	Arochlor (PCBs)	2.28 ppm	1 ppm
SS-WSA-4B (0.5-1.0)	BAA	3.79 ppm	1 ppm
	BAP	3.04 ppm	1 ppm
	BBF	3.96 ppm	1 ppm
	D(a,h)A	0.59 ppm	0.3 ppm
	Indeno	2.05 ppm	0.5 ppm
SS-WSA-5B (0.5-1.0)	Indeno	0.508 ppm	0.5 ppm
SS-WSA-6B (0.5-1.0)	Indeno	0.524 ppm	0.5 ppm
SS-WSA-7B (0.5-1.0)	BBF	1.11 ppm	1 ppm
	Indeno	0.62 ppm	0.5 ppm
SS-WSA-9B (0.5-1.0)	BBF	1.09 ppm	1 ppm
	Indeno	0.56 ppm	0.5 ppm
SS-WSA-14B (0.5-1.0)	Barium	402 ppm	400 ppm
SS-WSA-16B (0.5-1.0)	D(a,h)A	0.48 ppm	0.3 ppm
	Indeno	1.57 ppm	0.5 ppm

Of these results, only barium is a constituent of concern for paint sludge and is marginally above the standard. The remaining impacts can be attributed to the construction and demolition debris from historical houses/buildings that used to reside in the immediate vicinity of the WSA.

At this time, ARCADIS proposes the following approach for excavation and restoration of the WSA:

- Excavate to 1' bgs and collect post-excavation samples for only the COCs identified above (i.e. exceedances).
- Backfill and restore the area to existing grade (1 foot cover if exceedances are identified.

Based on this scenario an additional 450 tons of impacted material would be removed from the site and a 1 foot cover would be in place over any remaining PAH-impacts within the WSA (based on post excavation samples to be collected). Please let us know if NYSDEC approves this request and if you have some time tomorrow (8/21/2013) to further discuss as demobilization is presently set for Tuesday, 8/27/13.

Thanks.

-Krista

Krista Mastrocola | Civil Engineer II | krista.mastrocola@arcadis-us.com

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From: Jennifer Dawson [jrdawson@gw.dec.state.ny.us]

Sent: Monday, September 09, 2013 12:35 PM

To: 'bill.prehoda@unitedwater.com'; Bennett, William; Rocklin, Jon

Subject: Re: Ramapo Herbicide Control

Phrag control should be undertaken, asap - as well as hand-pulling of any other invasives that have snuck in. Application must be by a NYS licensed applicator with an herbicide that is approved for use in NYS (aquaneat is). If you are not working below the top of bank, it does not have to be an aquatic applicator. Herbicide application should be the hand wipe method - no spraying.

Jenn

>>> "Rocklin, Jon" <<u>Jon.Rocklin@arcadis-us.com</u>> 9/6/2013 3:19 PM >>> Bill and Bill –

Amy S Green is very concerned with Site restoration maintenance in the short and long term due to the Phragmites currently growing at the Site. They said that the phrags would take over the restoration area if left unchecked.

They are not even sure they would take that on without the use of the two attached herbicides. I explained how OU-1 is in the well field and along the Ramapo River and I did not think the use of any herb/pest would be approved.

Craig Metzger stated that these are widely used on Sites and safe. I said I would bring to the DEC and UW for discussions.

Hope we can discuss sometime Monday.

Have a great weekend, Jon

Jon Rocklin | Project Manager | jon.rocklin@arcadis-us.com ARCADIS U.S., Inc. | 17-17 Route 208 North, 2nd Floor | Fair Lawn, NJ 07410 Direct: 201.398.4364 | Fax: 201.797.4399 | Cell 914.260.7373

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New York State Department of Environmental Conservation

Division of Environmental Remediation

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Website: www.dec.ny.gov

Transmitted via e-mail and US Mail



October 28, 2013

Mr. Mohamed Zakar Senior Environmental Engineer Environmental Quality Office Ford Motor Company Fairline Plaza North, Suite 800 290 Town Center Drive Dearborn, MI 48126

Re: Revised Site Restoration Plan, Interim Remedial Measure (IRM), Operable Unit 1 Ramapo Paint Sludge Site, Site No. 3-44-064, Town of Ramapo, Rockland County

Dear Mr. Zakar,

The New York State Department of Environmental Conservation (Department) is in receipt of a Revised Site Restoration Plan to the IRM work plan for Operable Unit 1 (OU-1) dated October 4, 2013 prepared by ARCADIS on behalf of the Ford Motor Company for the Ramapo Paint Sludge site. The Revised Site Restoration Plan is amended by an e-mail received October 24, 2013 which provides additional information for the restoration of the bank adjacent to the Ramapo River. In accordance with 6 NYCRR Part 375-1.6(d)(3) the Site Restoration Plan is hereby approved with the following modification.

Modification 1, Monitoring: Monitoring of the restored area should continue for 5 years. Monitoring criteria shall be 85 % survival of plantings and < 5 % cover of invasive species. If monitoring criteria are not met during the 5 year post remediation period there should be a plan for replanting if 85 % survival is not met or a plan for invasives control if > 5% of invasive cover is observed.

In accordance with 6 NYCRR Part 375-1.6(3) should Ford accept the Department's modifications to the work plan, please document this acceptance in writing within 15 days of receipt of this letter.

If you have any questions or concerns, please feel free to contact me at (518) 402-9662.

Sincerely,

William B. Bennett III, P.E. Environmental Engineer 2

Remedial Bureau C

Division of Environmental Remediation

William B Bennett II

ec: M. Zakar, Ford

J. Rocklin, ARCADIS

A. Perretta, NYSDOH

T. Dzurinko, Town of Ramapo

J. Dawson

D. Crosby

New York State Department of Environmental Conservation

Division of Environmental Remediation

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Website: www.dec.ny.gov

Transmitted via e-mail and US Mail



November 5, 2013

Mr. Mohamed Zakar Senior Environmental Engineer Environmental Quality Office Ford Motor Company Fairline Plaza North, Suite 800 290 Town Center Drive Dearborn, MI 48126

Re:

Addendum 1 – Utility Corridor Soil Remediation Interim Remedial Measure (IRM) Work Plan for Paint Sludge and Impacted Soil Removal within Operable Unit 1 (OU-1) Ramapo Paint Sludge Site, Site No. 3-44-064, Town of Ramapo, Rockland County

Dear Mr. Zakar,

The New York State Department of Environmental Conservation (the Department) in consultation with the New York State Department of Health (NYSDOH) is in receipt of Addendum 1 – Utility Corridor Soil Remediation (IRM) Work Plan for Paint Sludge and Impacted Soil Removal within (OU-1) dated October 17, 2003 prepared by ARCADIS on behalf of Ford Motor Company (Ford). In accordance with 6 NYCRR Part 375-1.6(d)(3) Addendum 1 is hereby approved with the following modifications"

Modification 1: Excavated material in the material/waste storage area must be contained so as to prevent any runoff or infiltration of contamination to the environment. Post storage sampling and/or removal of material beneath the storage may be required by the Department to document that the final disposition of the storage area meets Department requirements.

Modification 2: Documentation from each source of backfill must meet the requirements of DER-10 Section 5.4(e).

In accordance with 6 NYCRR Part 375-1.6(3) should Ford accept the Department's modifications to the document, please document this acceptance in writing within 15 days of receipt of this letter.

If you have any questions or concerns, please feel free to contact me at (518) 402-9662.

Sincerely,

William B. Bennett III, P.E.

William & Bennett TA

Environmental Engineer 2

Remedial Bureau C

Division of Environmental Remediation

ec:

A. Perretta, NYSDOH

J. Corrado, ARCADIS

J. Rocklin, ARCADIS

T. Dzurinko, Town of Ramapo

D. Crosby, NYSDEC

Rocklin, Jon

From: William Bennett <wbbennet@gw.dec.state.ny.us>

Sent: Wednesday, November 13, 2013 8:00 AM

To: Rocklin, Jon

Subject: Re: Ford Ramapo OU-1

Hi Jon,

You mat proceed without the XRF for the utility corridor work.

Bill

William B. Bennett III, P.E.
Environmental Engineer 2
Remedial Bureau C
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New York State Department of Environmental Conservation
625 Broadway
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>>> "Rocklin, Jon" <<u>Jon.Rocklin@arcadis-us.com</u>> 11/7/2013 11:04 AM >>> Hello Bill –

Due to the limited amount of post ex sampling that will be occurring at Ramapo this phase, do you see the need for the XRF gun?

I was not going to have on Site unless you feel it is necessary.

Thank you, Jon

Jon Rocklin | Project Manager | jon.rocklin@arcadis-us.com

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Rocklin, Jon

From: William Bennett <wbbennet@gw.dec.state.ny.us>

Sent: Monday, December 16, 2013 11:20 AM

To: Rocklin, Jon

Cc: 'mzakkar@ford.com'; David Crosby

Subject: Re: Ford Ramapo OU-1 Crushed Water Main Pipe Disposal

Jon,

You may dispose of the steel inner water line pipe as scrap steel.

Bill

>>> "Rocklin, Jon" <<u>Jon.Rocklin@arcadis-us.com</u>> 12/12/2013 3:05 PM >>> Bill – Things at the Site are going very well. All excavation and backfill has been completed. We are in the load-out phase.

Attached are pics of the steel inner water line pipe. The email below explains what was done.

Can we send this steel to a local scrap yard? Or does it need to be manifested and loaded out?

Thank you, Jon

Jon Rocklin | Project Manager | jon.rocklin@arcadis-us.com ARCADIS U.S., Inc. | 17-17 Route 208 North, 2nd Floor | Fair Lawn, NJ 07410 Direct: 201.398.4364 | Fax: 201.797.4399 | Cell 914.260.7373 www.arcadis-us.com



From: Jones, Matthew

Sent: Thursday, December 12, 2013 2:39 PM

To: Rocklin, Jon; Mastrocola, Krista **Subject:** Crushed Water Main

Attached are the pictures of the crushed water main. The concrete surrounding the steel pipe was crushed and disposed with the Non-Haz soil. The amount of steel pipe (80 feet) that is on site does not warrant getting a recycling roll off delivered. Also the remaining pipe did not come in contact with any hazardous materials so I see no reason to dispose of this pipe in our Haz or Non-Haz waste streams.

I'm sure Cream could move a trailer or single axle dump to remove this pipe as scrap. Let me know and I will discuss with Justin.

Matthew Jones | Project Environmental Scientist | matthew.jones@arcadis-us.com

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Town Board 237 Rt 59 Suffern, NY 10901

ADOPTED

RESOLUTION 2016-373

Designation of Representative - Ramapo Wellfield Property Clean-up of OU-1 (W/S)

WHEREAS, the Ford Motor Company has completed the cleanup of the Ramapo wellfield property (OU-1), and they are in the process of preparing the mandatory construction closure report to close out the project, and

WHEREAS, the Town, as property owner, is required to designate an "Owner's Designated Site Representative" to complete and sign various documents with respect to the construction closure report, and

WHEREAS, ARCADIS, who is working with Ford Motor Company, with respect to the cleanup, has requested that Joseph J. Corrado, P.E. be designated as the Town's Designated Site Representative, and

WHEREAS, the Town Attorney's Office and Kimberlea Rea, Esq., the Town's environmental counsel, have no objection,

NOW, THEREFORE, BE IT RESOLVED by the Town Board of the Town of Ramapo that *JOSEPH J. CORRADO*, *P.E.* is hereby designated as the Town's Designated Site Representative, and is authorized to complete all required documents with respect to the construction closure report to be submitted with respect to the cleanup of OU-1.