



2019 Remedial Excavation Program
Pacific Environment Centre (PEC) Site,
West Vancouver, BC

Site Location



Legend

Site Boundary

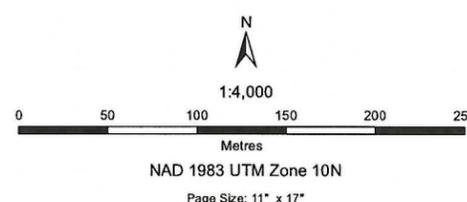


Notes

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2. All measurements displayed on the figure are approximate and are to be verified in the field.

Sources

- Contains information licensed under the Open Government Licence - British Columbia
- Aerial Imagery: District of North Vancouver, 2013
- Inset Basemap: ESRI World Topographic Map

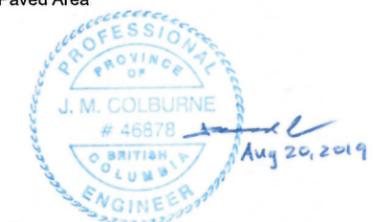


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Site Plan

Legend

- ××× Fence
- Grout Wall
- ⋯ Site Boundary
- ▨ Storage Cell
- ▨ Transfer Facility
- ▭ Final Excavation Areas for the North and South Excavations from the 2018 Remedial Excavation Program
- ▭ Final excavation area for the former Heede Crane Area Remediation Base Work
- ▭ Final excavation area for the former Heede Crane Area Remediation Optional Work
- ⊠ Site Support Zone
- Wheel Wash
- Water Holding Cell
- Lysimeter Pad
- Leftover Treatment Wall Media
- Existing Owner Supplied Backfill
- ▨ Imported Backfill Stockpile
- Gravel and Cobble Stockpile
- Metals Contaminated Soil Stockpile
- Wood, Plastic and Metals Waste Piles
- Remaining Concrete Pipe and Waste Pile
- Access Road
- Paved Area

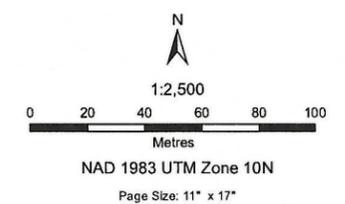


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Sources

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- Off-Site Imagery: District of North Vancouver, 2013

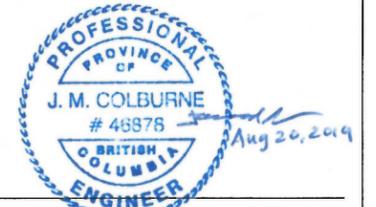


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Site Preparation

Legend

- Utility Pole
- ⊗ Utility Pole to be Dismantled
- x—x— Fence
- - - Grout Wall
- ⬜ Site Boundary
- ▨ Storage Cell
- ▨ Transfer Facility
- ▨ Final Excavation Areas for the North and South Excavations from the 2018 Remedial Excavation Program
- ▨ Final excavation area for the former Heede Crane Area Remediation Base Work
- ▨ Final excavation area for the former Heede Crane Area Remediation Optional Work
- ▨ Vegetation Site Preparation Area
- ▨ Site Support Zone
- ▨ Wheel Wash
- ▨ Water Holding Cell
- ▨ Lysimeter Pad
- ▨ Existing Owner Supplied Backfill
- ▨ Imported Backfill Stockpile Area
- ▨ Gravel and Cobble Stockpile
- ▨ Metals Contaminated Soil Stockpile
- ▨ Wood, Plastic and Metals Waste Piles
- ▨ Remaining Concrete Pipe and Waste Pile
- ▨ Leftover Treatment Wall Media
- ▨ Access Road
- ▨ Paved Area

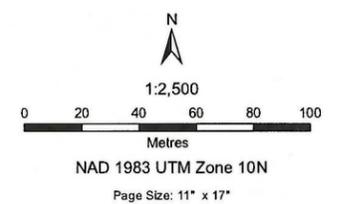


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- Off-Site Imagery: District of North Vancouver, 2013

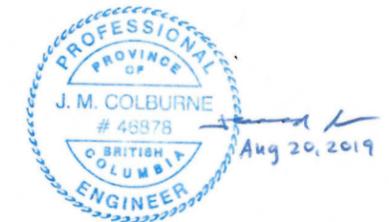


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Storage Cell #1 Soil for Disposal

Legend

-  Cell #1 Outline
-  Amended Hazardous Waste Soil

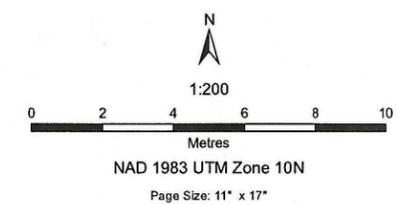


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3. The existing 20 mil polyethylene cover over this cell is to be removed by the contractor prior to soil loading.
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Sources

- Site Imagery: Trevita Survey orthophoto, March 2015



Storage Cell #2 Soil for Disposal

Legend

-  Cell #2 Outline
-  Amended Hazardous Waste



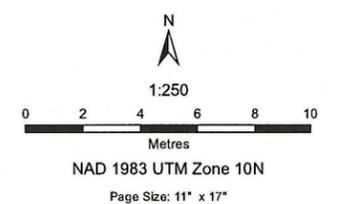
Aug 20, 2019

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Sources

- Site Imagery: Trevita Survey orthophoto, March 2015



Storage Cell #5 Soil for Disposal

Legend

-  Cell #5 Outline
-  Subcell
-  Base of Lift 2
-  The majority of the non-hazardous waste (CL+) soil from this area has been loaded out as part of the 2018/2019 soil disposal program
-  Exceeds CSR CL Standards
-  Exceeds BC Hazardous Waste Regulations for Lead - Leachate Quality Standards
-  Exceeds BC Hazardous Waste Regulation for Copper - Leachate Quality Standards
-  Exceeds BC Hazardous Waste Regulation for Copper and Lead - Leachate Quality Standards

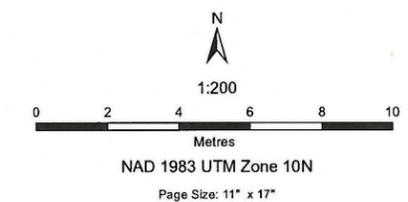


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Sources

- Site Imagery: Trevita Survey orthophoto, March 2015



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Storage Cell #6 Soil for Disposal

Legend

-  Cell #6 Outline
-  Exceeds BC Hazardous Waste Regulation for Lead - Leachate Quality Standards
-  Amended Hazardous Waste Soil

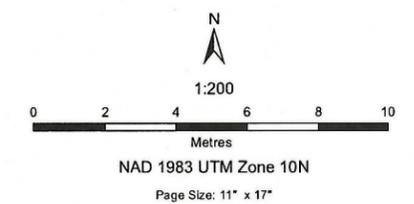


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Sources

- Site Imagery: Trevita Survey orthophoto, March 2015



Transfer Facility Soil for Disposal

Legend

-  Transfer Facility Outline
-  Amended Hazardous Waste Soil
-  Exceeds BC Hazardous Waste Regulation for Lead - Leachate Quality Standards



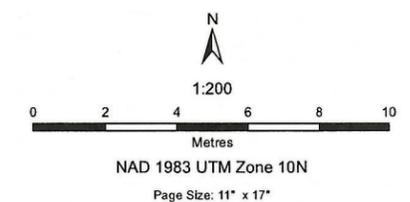
TRANSFER FACILITY

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Sources

- Site Imagery: Trevita Survey orthophoto, March 2015



Stockpile X Soil for Disposal

Legend

-  Stockpile Outline
-  Exceeds CSR CL standards for various metals



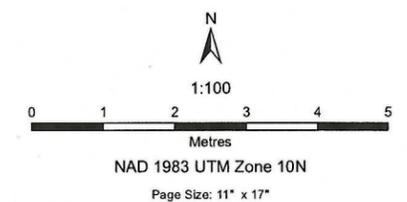
STOCKPILE X

Notes

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Sources

- Site Imagery: Trevisa Survey orthophoto, March 2015



Contaminated Soil Storage Areas

Legend

- Utility Pole
- × Fence
- - - Grout Wall
- ▭ Site Boundary
- ▨ Transfer Facility
- ▭ Existing Soil Storage Area
- ▭ Future Soil Storage Area
- ▭ Soil Storage Cell Not Available (to be removed prior to the 2019 excavation works)

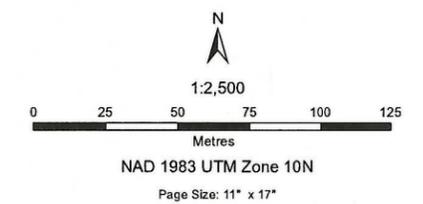


Notes

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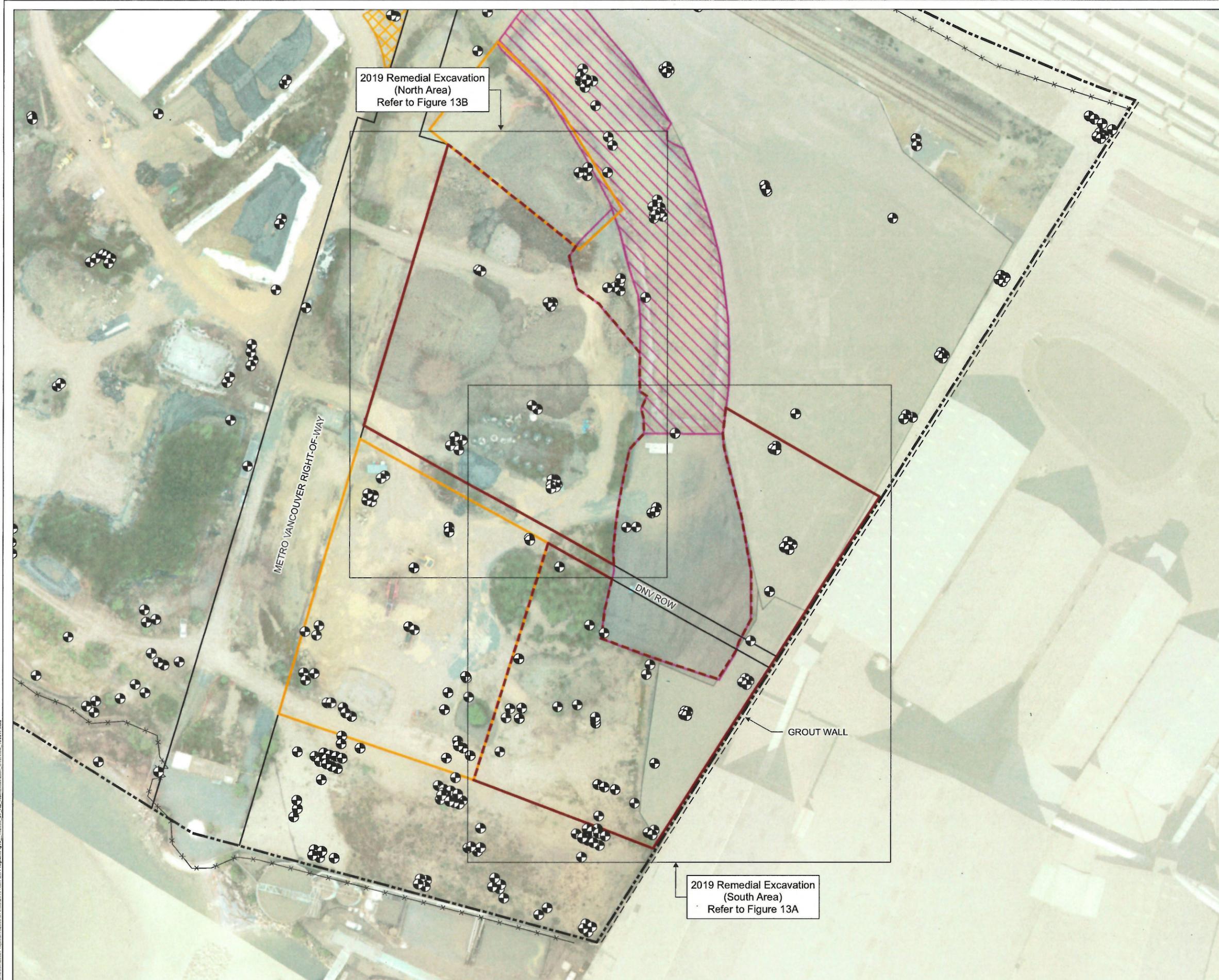
Sources

- Site Imagery: Trevita Survey orthophoto, March 2015
- Off-Site Imagery: District of North Vancouver, 2013



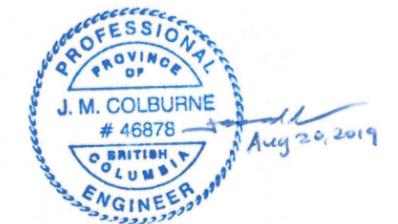
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2019 Remedial Excavation Overview



Legend

- ⊕ Monitoring Well Location
- x-x Fence
- - - Grout Wall
- ⬜ Site Boundary
- ⬜ Approximate Top of 2019 Remedial Excavation
- ⬜ Approximate Top of 2019 Remedial Excavation
- ⬜ Final Excavation Areas for the North and South Excavations from the 2018 Remedial Excavation Program
- ⬜ Final excavation area for the former Heede Crane Area Remediation Base Work
- ⬜ Final excavation area for the former Heede Crane Area Remediation Optional Work
- ⬜ Proposed Contractor Support Zone
- ⬜ Paved Area

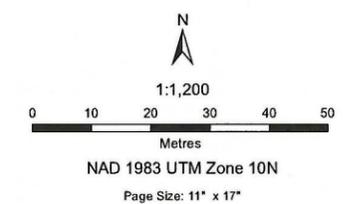


Notes

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Sources

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- Off-Site Imagery: District of North Vancouver, 2013



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 102655_57_RE Remedial Excavation Overview_190817.mxd

2019 Remedial Excavation - South Area

Legend

- Monitoring Well Location
- Grout Wall
- Site Boundary
- Approximate Top of 2019 Remedial Excavation
- Approximate Top of 2019 Remedial Excavation - Clean Backfill Overlap Areas (see inset figure)
- Final Excavation Areas for the North and South Excavations from the 2018 Remedial Excavation Program
- Final excavation area for the former Heede Crane Area Remediation Base Work
- Final excavation area for the former Heede Crane Area Remediation Optional Work
- Paved Area

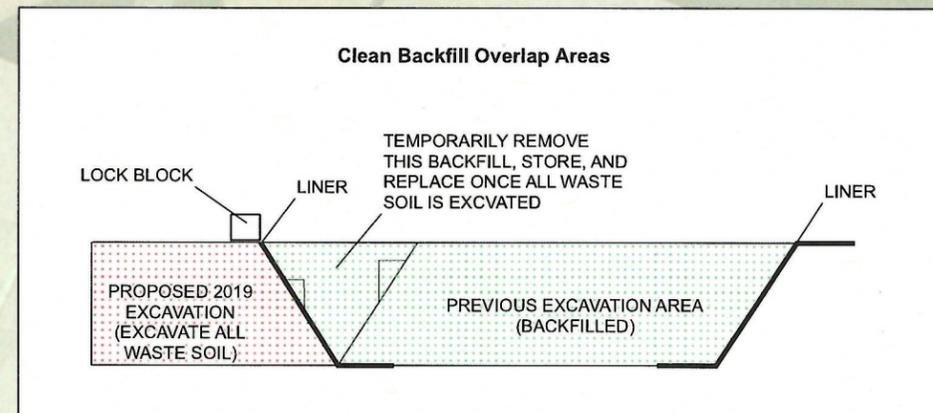
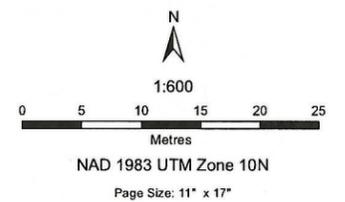


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3. Inset not drawn to scale.
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Sources

- Site Imagery: Trevisa Survey orthophoto, March 2015
- Off-Site Imagery: District of North Vancouver, 2013



2019 Remedial Excavation - North Area

Legend

-  Monitoring Well Location
-  Site Boundary
-  Approximate Top of 2019 Remedial Excavation
-  Approximate Top of 2019 Remedial Excavation - Clean Backfill Overlap Areas (see inset figure)
-  Final Excavation Areas for the North and South Excavations from the 2018 Remedial Excavation Program
-  Final excavation area for the former Heede Crane Area Remediation Base Work
-  Final excavation area for the former Heede Crane Area Remediation Optional Work
-  Paved Area

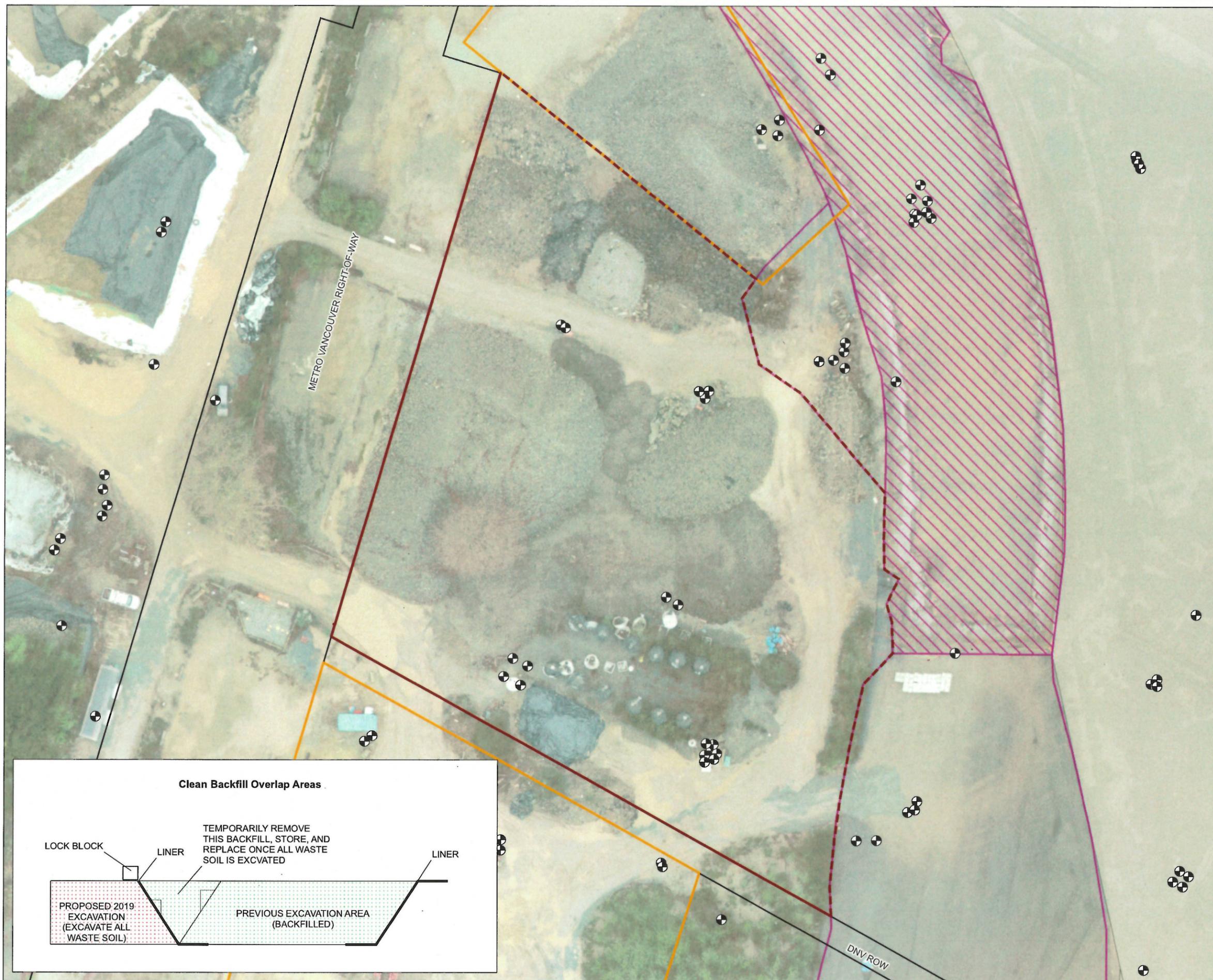
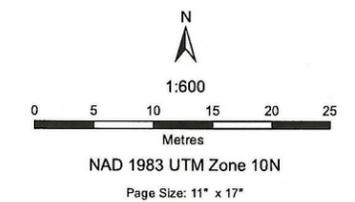


Notes

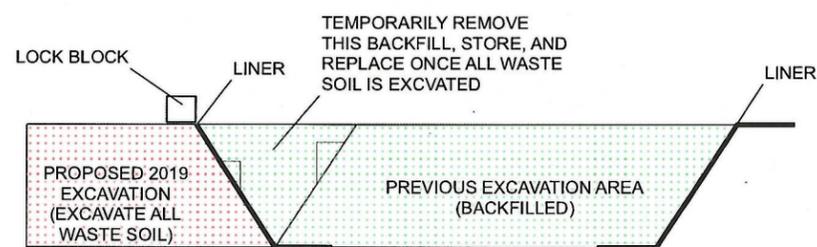
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Clean Backfill Overlap Areas



Backfill Storage Area

Legend

- x—x Fence
- ▣ Site Location
- ▨ Transfer Facility
- ▤ Site Support Zone
- ▥ Wheel Wash
- ▧ Proposed Contractor Support Zone
- ▩ Existing Owner Supplied Backfill
- Imported Backfill Stockpile Area
- Access Road

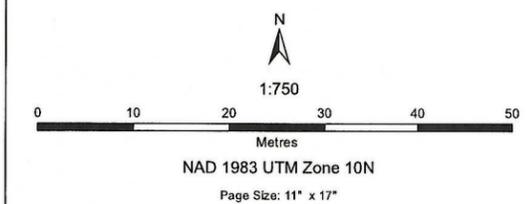


Notes

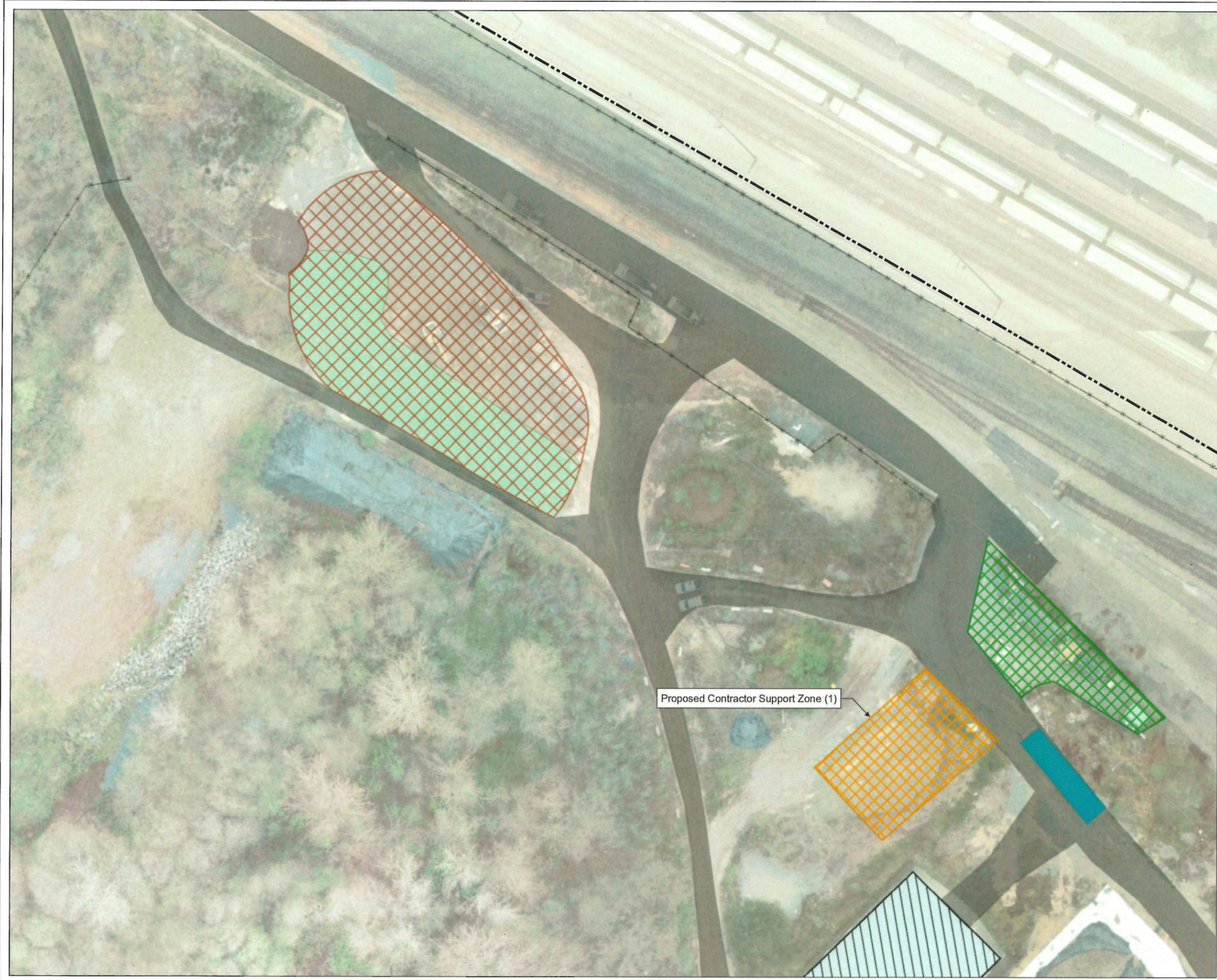
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Proposed Contractor Support Zone (1)