APPROVED JURISDICTIONAL DETERMINATION FORM U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): June 9, 2022 DISTRICT OFFICE, FILE NAME, AND NUMBER: NY District - NP Staten Island Industrial, LLC - NAN-2021-00635-EMI C. PROJECT LOCATION AND BACKGROUND INFORMATION: 4101 Arthur Kill Road State: NY County/parish/borough: Richmond City: New York Center coordinates of site (lat/long in degree decimal format): Lat. 40.545593° N, Long. -74.238475° W. Universal Transverse Mercator: 564483.54 Easting 4488594.14 Northing Name of nearest waterbody: Arthur Kill Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Arthur Kill Name of watershed or Hydrologic Unit Code (HUC): Woodbridge Creek-Arthur Kill 020301040201 Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request. Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form. D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY): Office (Desk) Determination. Date: Field Determination. Date(s): June 30, 2021 SECTION II: SUMMARY OF FINDINGS A. RHA SECTION 10 DETERMINATION OF JURISDICTION. There Are "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required] Waters subject to the ebb and flow of the tide. Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce. Explain: The Arthur Kill is a navigable waterbody used for interstate and foreign transport/commerce. B. CWA SECTION 404 DETERMINATION OF JURISDICTION. There are and are not "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required] 1. Waters of the U.S. a. Indicate presence of waters of U.S. in review area (check all that apply): 1

X 7	ΓNWs, including territorial seas
\boxtimes V	Wetlands adjacent to TNWs
X I	Relatively permanent waters ² (RPWs) that flow directly or indirectly into TNWs
_ N	Non-RPWs that flow directly or indirectly into TNWs
	Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
7	Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
I	Impoundments of jurisdictional waters
T I	(solated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: 6,750 linear feet: Varies width (ft) and/or 35 acres. Wetlands: 19.6 acres.

c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual

Elevation of established OHWM (if known): HTL 2.55 NAVD.

2. Non-regulated waters/wetlands (check if applicable):³

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: Wetland Areas 7, 8, 9, 11, 12, 13 are isolated and have no apparent hydrologic connection to TNW.

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¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

TNW

Identify TNW: Arthur Kill.

Summarize rationale supporting determination: Included on New York District List of Navigable Waters.

Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is "adjacent": Wetland Areas 2, 3, 4, and 5 are present along the review area's northern shoreline and directly abut the Arthur Kill, Wetland 6 is bisected from the shoreline complex by a man-made berm remaining connected via culvert, Wetland 1 abuts the Arthur Kill as well as extends upgradient along an unnamed perennial non-TNW water (Johnson Street tributary).

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under Rapanos have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are "relatively permanent waters" (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: 75**square miles** Drainage area: +/- 75 acres

Average annual rainfall: 46.3 inches inches Average annual snowfall: 29.4 inches

Phy	sical Characteristi	cs:
(a)	Relationship with	ΓNW:
` ′	☐ Tributary flows	s directly into TNW.
	☐ Tributary flows	s through Pick List tributaries before entering TNW.
	Project waters are	1 (or less) river miles from TNW.
	Project waters are	Pick List river miles from RPW.
	Project waters are	1 (or less) aerial (straight) miles from TNW.
	Project waters are	1 (or less) aerial (straight) miles from RPW.
	Project waters cros	s or serve as state boundaries. Explain:

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

Identify flow route to TNW5: Tributary flows south to north through the northeastern portion of the review area entering the property along Johnson Street and discharging directly to the Arthur Kill. Tributary stream order, if known: First. (b) General Tributary Characteristics (check all that apply): **Tributary** is: Artificial (man-made). Explain: Manipulated (man-altered). Explain: **Tributary** properties with respect to top of bank (estimate): Average width: 2 feet Average depth: 2 feet Average side slopes: 2:1. Primary tributary substrate composition (check all that apply): ⊠ Silts Concrete Cobbles Gravel Muck Bedrock Vegetation. Type/% cover: Other. Explain: Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: Stable. Presence of run/riffle/pool complexes. Explain: None. Tributary geometry: Meandering Tributary gradient (approximate average slope): 3 % Tributary provides for: Intermittent but not seasonal flow Estimate average number of flow events in review area/year: 20 (or greater) Describe flow regime: Intermittent. Other information on duration and volume: Not available. Surface flow is: Confined. Characteristics: Narrow, low flow, meandering, channelized freshwater stream. Subsurface flow: Unknown. Explain findings: Dye (or other) test performed: Tributary has (check all that apply): Bed and banks OHWM⁶ (check all indicators that apply): clear, natural line impressed on the bank the presence of litter and debris changes in the character of soil destruction of terrestrial vegetation ☐ shelving the presence of wrack line vegetation matted down, bent, or absent sediment sorting leaf litter disturbed or washed away scour sediment deposition multiple observed or predicted flow events water staining abrupt change in plant community other (list): ☐ Discontinuous OHWM.⁷ Explain: If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply): High Tide Line indicated by: Mean High Water Mark indicated by: oil or scum line along shore objects survey to available datum; ☐ physical markings; fine shell or debris deposits (foreshore) physical markings/characteristics vegetation lines/changes in vegetation types. tidal gauges other (list):

(iii) Chemical Characteristics:

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW. ⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break. ⁷Ibid.

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.). Explain: Tributary can be characterized as clear, freshwater stream derived from upland drainage and groudwater baseflow.

Identify specific pollutants, if known: Developed upland portions of the review area include of a former Major Oil Storage Facility (MOSF). The site is subject to remediation under NYSDEC and USEPA Consent Orders. Chemcial sampling of the tributary has not been performed to date.

	Riparian corridor. Characteristics (type, average width): Forested decidious uplands with average 100' width. Wetland fringe. Characteristics: Paulstine forested decidous wetlands with average width of 250'. Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings: Intermittent freshwater stream situated within a contigous woodland of forested decidous uplands and wetlands.
2. Charact	eristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW
encompass sn	General Wetland Characteristics: General Wetland Characteristics: Properties: Wetland size:14.23 acres Wetland type. Explain:Wetland Areas 1 and 10 both abut TNW's but are both predominately PFO1 that also naller PAB3 and PEM5 areas. Wetland quality. Explain:Wetland Areas 1 and 10 both consist primarily of mature growth woodland corridors that undisturbed but do include areas of dense stands of phragmites as shown on the Wetland Location Plan Set (PEM5). Project wetlands cross or serve as state boundaries. Explain: N/A.
	General Flow Relationship with Non-TNW: Flow is: Intermittent flow. Explain: Flow source derived from a combination of over land sheet flow from adjacent during rain events and base groundwater flows.
	Surface flow is: Overland sheetflow Characteristics: Wetlands exhibit evidence of overland sheet flow that is directed to tributary during rain events. Subsurface flow: Unknown. Explain findings: Dye (or other) test performed:
(c)	Wetland Adjacency Determination with Non-TNW: ☐ Directly abutting ☐ Not directly abutting ☐ Discrete wetland hydrologic connection. Explain: ☐ Ecological connection. Explain: ☐ Separated by berm/barrier. Explain:
(d)	Proximity (Relationship) to TNW Project wetlands are 1 (or less) river miles from TNW. Project waters are 1 (or less) aerial (straight) miles from TNW. Flow is from: Wetland to navigable waters. Estimate approximate location of wetland as within the 5 - 10-year floodplain.
Cha Idea Facility (MOS	emical Characteristics: racterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: Ponded waters within the wetlands were observed to be clear and free of surface sheen. https://example.com/racteristics/pollutants, if known: Developed upland portions of the review area include of a former Major Oil Storage SF). The site is subject to remediation under NYSDEC and USEPA Consent Orders. Chemcial sampling within Wetland 0 has not been undertaken to date.
	logical Characteristics. Wetland supports (check all that apply): Riparian buffer. Characteristics (type, average width):Forested riparian zone that is 50 to 500 feet wide. Vegetation type/percent cover. Explain: Please refer to Wetland Location Plan Set. Habitat for: Federally Listed species. Explain findings: Fish/spawn areas. Explain findings: Other environmentally-sensitive species. Explain findings: Aquatic/wildlife diversity. Explain findings: Wetland areas consist primarily of mature growth woodlands that also persistent emergent wetlands along with dense stands of phragmites.

3. Characteristics of all wetlands adjacent to the tributary (if any)

All wetland(s) being considered in the cumulative analysis: 2

Approximately (14.23) acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)Size (in acres)Directly abuts? (Y/N)Size (in acres)Wetland 1 Y8.01Wetland 10 Y6.22

Summarize overall biological, chemical and physical functions being performed: Overall biological, chemical and physical functions of the wetlands adjacent to the non-TNW tributaries can be generally characterized as those typical of undisturbed forested wetland complexes within the region in that wetlands provide habitat for various wildlife species, maintain and enhance water quality and provide for flood storage.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

- 1. Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D:
- 2. Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:
- 3. Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW. Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D:

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1.	TNWs and Adjacent Wetlands. Check all that apply and provide size estimates in review area:
	TNWs: (Arthur Kill) 5,150 linear feet Variable width (ft), Or, 35 acres.
	☑ Wetlands adjacent to TNWs: (Wetlands Areas 1, 2, 3, 4, 5 and 6, 10) 17.7746 acres.
2.	RPWs that flow directly or indirectly into TNWs.
	Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that
	tributary is perennial: (Johnson Street tributary) flow observed during multiple site inspections.
	Tributaries of TNW where tributaries have continuous flow "seasonally" (e.g., typically three months each year) are
	jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows
	seasonally:

	Provide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: 1,600 linear feet 2width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .	
3.	Non-RPWs ⁸ that flow directly or indirectly into TNWs. Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.	
	Provide estimates for jurisdictional waters within the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: .	
4.	Wetlands directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands. Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: An unnamed perennial RPW (Johnson Street tributary) flows to the Arthur Kill exist within Wetland 1. The wetland is within the 100 year flood plain. Wetland 10 is hydrologically connected to a large off-site wetland via multiple culverts beneath Ellis Road and Arthur Kill Road.	s
	Wetlands directly abutting an RPW where tributaries typically flow "seasonally." Provide data indicating that tributary seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW:	y is
	Provide acreage estimates for jurisdictional wetlands in the review area: (Wetland Areas 1 and 10) 14.23 acres.	
5.	Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs. Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjace and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisidictional. Data supporting this conclusion is provided at Section III.C.	
	Provide acreage estimates for jurisdictional wetlands in the review area: acres.	
6.	Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs. Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.	ınc
	Provide estimates for jurisdictional wetlands in the review area: acres.	
7.	Impoundments of jurisdictional waters. As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional. Demonstrate that impoundment was created from "waters of the U.S.," or Demonstrate that water meets the criteria for one of the categories presented above (1-6), or Demonstrate that water is isolated with a nexus to commerce (see E below).	
DEC SUC	LATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, GRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY CH WATERS (CHECK ALL THAT APPLY): 10 which are or could be used by interstate or foreign travelers for recreational or other purposes. from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.	

E.

 ⁸See Footnote # 3.
 9 To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.
 10 Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

	which are or could be used for industrial purposes by industries in interstate commerce. Interstate isolated waters. Explain:
	Other factors. Explain: .
Ide	ntify water body and summarize rationale supporting determination:
	vide estimates for jurisdictional waters in the review area (check all that apply): Tributary waters: linear feet width (ft). Other non-wetland waters: acres. Identify type(s) of waters: Wetlands: acres.
are isola U.S. The integrity or foreigin inters	N-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY): If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements. Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce. Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR). Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction. Explain: . Other: (explain, if not covered above): Wetlands 7, 8, 9, 11, 12 and 13 were determined to not be jurisdictional because they ited. These wetlands consist of consist of isolated depressions that showed no hydrological connection to any waters of the ese wetlands are not connected to a TNW and the filling of which would not affect the physical, chemical or biological of a TNW or any other Waters of the U.S. There are no features of these wetlands which are or could be used by interstate and travelers for recreational or other purposes. There are no areas from which fish or shellfish can be or are taken and sold state and foreign commerce. There are no areas which are or could be used for industrial purpose by industries in interstate ce. Consequently, there does not appear to be a resonable nexus with interstate commerce.
fact	vide acreage estimates for non-jurisdictional waters in the review area, where the <u>sole</u> potential basis of jurisdiction is the MBR ors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional gment (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: Wetlands: (Wetland Areas 7, 8, 9, 11, 12 and 13) 1.902 acres.
	vide acreage estimates for non-jurisdictional waters in the review area that do not meet the "Significant Nexus" standard, where such adding is required for jurisdiction (check all that apply): Non-wetland waters (i.e., rivers, streams): linear feet, width (ft). Lakes/ponds: acres. Other non-wetland waters: acres. List type of aquatic resource: . Wetlands: acres.
SECTIO	ON IV: DATA SOURCES.
and ⊠ Wo	PORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked requested, appropriately reference sources below): Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant:Wetland Location Plan prepared by Matrix New ride Engineering. Data sheets prepared/submitted by or on behalf of the applicant/consultant. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Data sheets prepared by the Corps: Corps navigable waters' study: U.S. Geological Survey Hydrologic Atlas: USGS NHD data. USGS NHD data. USGS 8 and 12 digit HUC maps. U.S. Geological Survey map(s). Cite scale & quad name: 1:24,000 scale Arthur Kill Quadrangle, NY-NJ. USDA Natural Resources Conservation Service Soil Survey. Citation: National wetlands inventory map(s). Cite name:Geographic Information System data layer. State/Local wetland inventory map(s):NY State Environmental Resource Mapper. FEMA/FIRM maps:PFIRM Panel 3604970311G. 100-year Floodplain Fleyation is: AE 13 - AE16 (National Geodectic Vertical Datum of 1929)

\boxtimes	Photographs: Aerial (Name & Date):	
	or Other (Name & Date):	
	Previous determination(s). File no. and date of response letter:	
	Applicable/supporting case law: .	
	Applicable/supporting scientific literature: .	
	Other information (please specify):	

B. ADDITIONAL COMMENTS TO SUPPORT JD: