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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICATION GUIDE FOR DEEPWATER PORT MAINTENANCE DREDGING AND DISPOSAL 25-YEAR PERMIT

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APPLICATION FOR DEEPWATER PORT

MAINTENANCE DREDGING AND DISPOSAL

25 YEAR PERMIT

INTRODUCTION

This application form has been prepared by the Department of Environmental Regulation to guide eligible parties in preparing applications for 25-year maintenance dredging permits and to aid affected state agencies, local governments and interested parties in evaluating applications. This form organizes information requirements and prescribes the format for submission of a complete and sufficient application. However, prior to attempting to complete the application, a preapplication meeting with the department is strongly recommended.

Eligibility for 25-year maintenance dredging permits is limited to channels, berths and turning basins used for deepwater commercial navigation and located within those ports specified in Section 403.816, Florida Statutes. All other applicants for maintenance dredging permits must utilize DER Form 17-1.203(1).

Twenty-five year maintenance dredging permits consist of two phases:

Phase I is designed to facilitate efficient data collection, planning and testing sufficient to provide reasonable assurance that the proposed dredging and disposal operations will be conducted in an environmentally sound manner throughout the term of the permit.

A major requirement of Phase I is development of a port-wide long-term dredged material management plan acceptable to the department. The plan is intended to provide a perspective of overall maintenance dredging and disposal needs of the port and proposed strategies for meeting those needs. As such, the plan provides a means for understanding the relationship between the permit re-

quest and the overall dredging and disposal needs and management capabilities of the port. Additionally, the plan facilitates early identification of specific maintenance dredging related problems and provides a framework for developing environmentally acceptable solutions.

Guidance for developing the dredged material management plan as well as for data collection and interpretation is provided in the DER DEEPWATER PORTS MAINTENANCE DREDGING AND DISPOSAL MANUAL.

Phase II of the permit is designed to allow maintenance dredging and disposal operations to be carried out over long periods, as needed, in accordance with permitted dredging and disposal methods and reporting requirements.

The required periodic reports provide a basis for tracking disposal volumes, available disposal site capacity, effectiveness of dredged material management practices, and conformity of operations with permit conditions.

A complete review of the permit by the department is required every five years.

Section I - GENERAL GUIDANCE

1.0 Preparation of the Application

The format of the application is intended to minimize efforts of the applicant and others involved in preparation and review of the application. If the applicant wishes to use a format other than that outlined in this document, each section of the alternative format must contain a reference as to the relevant part of this Application Guide. A master cross-reference sheet should be included as well.

After notifying DER of the intent to apply for a 25-year maintenance dredging permit, an applicant may request a preapplication meeting with the

department and appropriate agencies [F.A.C. Rule 17-45.06(1)]. Such a meeting is strongly recommended to define data needs, clarify port-specific issues to be addressed in the application and develop the scope of work necessary for a complete application. General information describing the applicant's proposed maintenance dredging and disposal operations shall be submitted to DER for review at least thirty days before the requested meeting. Prior to the meeting, DER may request additional supporting information and suggest specific agenda topics for discussion. At the conclusion of the meeting, the applicant and DER should agree in writing to the scope of information, sampling program, data requirements and interpretations, dredging and dredged material disposal methods, disposal site engineering design and other information required for a complete application.

Whenever new information is submitted in response to DER application completeness remarks, or at the applicant's own volition, this shall be reflected in an update of the application to show the old and new language. All information submitted subsequent to the original application shall be in a format (e.g., paper size, quality, hole punching, etc.) which can be easily inserted and collated with the original application.

1.1 General Data Requirements

Information obtained from state, federal, local and regional governmental agencies, educational institutions, and qualified consultants may be used when completing the application. All published documents used in support of the application must be referenced and, if not publicly available, be made available for examination and copying upon request.

Concise descriptive or narrative text, as well as tables, maps, charts, field data sheets etc. should be used where possible to provide the required information. However, water quality and sediment data should be presented in the

format prescribed in the DEEPWATER PORTS MAINTENANCE DREDGING AND DISPOSAL MANUAL. Additionally, procedures for interpreting data are outlined in the MANUAL.

Data reporting sheets are included in Appendix C of this application. These sheets contain parameters for which measurements are often needed. Certain indicated parameters may not be applicable; however, as determined through discussion with the department, particular circumstances may warrant investigation of additional parameters not listed.

Any pertinent reports of work (field surveys, hydrographic studies, monitoring results, etc.) supported by the applicant for assessing the water quality and environmental impacts of proposed maintenance dredging and disposal should be included as attachments, with appropriate cross-references in the text. Any deviation from department standard procedures by the authors of the reports should be documented and discussed [F.A.C. Rule 17-45.15].

If a preapplication stipulation [F.A.C. Rule 17-45.06] between the applicant and DER has been prepared, it should be included as an attachment to the application. Phase I monitoring or other data gathering programs, if developed during the application period, should also be attached. Proposed monitoring programs should include the objectives, study plan, sampling and analytical procedures, and work schedule in the attachment.

1.2 Quality Assurance

It is of critical importance that data and information submitted in support of an application be accurate and reliable. The methods for field sampling, laboratory analysis and data interpretation shall be those duly adopted, published, or otherwise approved by DER [F.A.C. Rule 17-45.15]. It is strongly recommended that sampling station locations, parameters, sampling frequency, methodology (including calibration and checks with standards) and instrumentation, for both collection and analysis, be discussed with appropriate DER staff prior to initiation

of data gathering efforts. The applicant's quality assurance procedures shall be fully documented in an attachment to the application.

1.3 Dredged Material Management Plans

A completed port-wide dredged material management plan is not required for application for a long-term permit. However, the application must include at least a detailed study design and time schedule for completion of such a plan. Since DER approval of a dredged material management plan is required for entry into Phase II of the permit, it would be advantageous to initiate plan development as soon as possible [F.A.C. Rule 17-45.07].

While general guidance for developing dredged material management plans is contained in the DEEPWATER PORTS MAINTENANCE DREDGING AND DISPOSAL MANUAL, specific details and scheduling for plan completion are appropriate items for discussion and mutual agreement at a preapplication meeting.

1.4 Requirements for Maps, Aerial Photographs and Scale Drawings [F.A.C. Rule 17-45.05]

Assessment of proposed maintenance dredging and disposal activities requires an understanding of site-specific details of the operations, as well as spatial interrelationships with adjacent land uses and natural resources. For this reason, all applications for long-term maintenance dredging and disposal permits must contain maps, aerial photographs and scale drawings adequate for understanding the geographic setting of the maintenance dredging areas and associated disposal sites.

In specific cases, maps and drawings may be required to depict disposal site topography and vegetation, location of the mean high water line, hydrographic considerations, proposed mixing zone(s), aquatic resources, and other considera-

tions pertinent to permit issuance. Information depicted on maps, aerial photographs and scale drawings should be cross-referenced and clearly explained in the text.

Florida law requires that drawings, other than those prepared by a person for his own property or by a governmental employee in the course of his assigned duties for a governmental entity, must be certified by a professional engineer or a registered land surveyor (Chapter 471, F.S.).

1.5 Modifications to Projects [F.A.C. Rule 17-45.11]

During a long-term permit, project modifications require specific DER approval. This application form is required to be used when requesting the following three types of modifications:

(1) Enlargement or addition of new maintenance dredging areas.

(2) Enlargement or addition of new maintenance dredged material disposal sites.

(3) Deletion of maintenance dredged material disposal sites.

Applications for the above types of modifications shall be accompanied by:

(a) Appropriate water and sediment quality data and aquatic resources information for each proposed additional area.

(b) Data necessary to support the proposed deletion of a disposal area; and

(c) An update of the Port-Wide Long-Term Maintenance Dredged Material Management Plan, incorporating each proposed addition or each proposed deletion.

DER review and processing of requests for the above types of modifications shall be done in the same manner as the original application.

Requests for modifications involving other aspects of a project, such as deletion of dredging areas, alteration of monitoring requirements, required

dredging methods, and recordkeeping or reporting requirements shall be submitted to the department by letter containing the proposed change(s) and the reasons therefore. A request for deletion of a maintenance dredging area shall be accompanied by a plan view drawing showing the proposed deletion.

1.6 Coordination With Affected Agencies

While DER may assist the applicant in developing an application, the applicant is responsible for assuring coordination with other local, state and federal agencies having directly related interests or responsibilities.

In particular, close coordination and mutual agreement is required between port authorities, private terminals and the U.S. Army Corps of Engineers regarding shared use of disposal sites and the joint application requirements of F.A.C. Subsection 17-45.02(3). Further, a close working relationship is needed between port authorities and the U.S. Army Corps of Engineers to develop workable port-wide maintenance dredged material management plans.

Additionally, it is the applicant's responsibility to obtain necessary DNR letters of consent, submerged land leases, easements or other forms of consent required for use of state lands under Section 253.77, Florida Statutes. The applicant must also fully coordinate with DNR any aspects of the dredged material management plan that contemplate use of disposal site acquisition or improvement funds under Section 376.11, F.S. and F.A.C. Rule 16Q-22.

It is also the applicant's responsibility to insure compliance with permit requirements of other state, federal and local agencies, including, but not limited to DNR beach renourishment permits under Chapter 161, F.S., U.S. Army Corps of Engineers permits under the federal Rivers and Harbors Act or the Clean Water Act, and federal permits for ocean disposal under the Marine Protection, Research and Sanctuaries Act.

1.7 Consistency With The Florida Coastal Management Program

1.7.1 Federal agencies as applicants for long-term permits.

Where a federal agency, such as the U.S. Army Corps of Engineers, is conducting maintenance dredging and disposal operations, a consistency determination by the federal agency is required under Subsection 307(c)(1) of the federal Coastal Zone Management Act, As Amended. The determination shall be a part of this application and include a brief statement indicating whether or not the proposed activity will be undertaken in a manner consistent to the maximum extent practicable with the Florida Coastal Management Program.

The statement must be based upon an evaluation of the relevant provisions of the state coastal management program. The consistency determination shall also include a detailed description of maintenance dredging activities, associated facilities (such as disposal sites) and their coastal zone effects together with any other data necessary to support the federal agency consistency statement. Information contained in the application may be referenced in support of the determination.

1.7.2 Applicants For Federal Permits.

Under Subsection 307(c)(3)(A) of the federal Coastal Zone Management Act, As Amended, an applicant for federal permits is required to furnish the federal agency his certification that the proposed activity complies with the Florida Coastal Management Program. No permit shall be granted by the federal agency until the state has concurred with the applicant's certification. Pursuant to Section 380.23(1), F.S., the state's permitting decision constitutes concurrence with or objection to the applicant's consistency certification.

Section II - APPLICATION INSTRUCTIONS

2.0 Submission of the Application [F.A.C. Rule 17-45.06]

Submit four copies of the application, together with four sets of detailed plans and such information or data as may be necessary. Additional copies of this application guide may be obtained from the Bureau of Permitting, Florida Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32301; phone (904)488-0130.

The applicant may be required to furnish such additional information as may be timely requested in order to complete a review of the application (Section 403.0876, F.S.).

2.1 Applicant(s) [F.A.C. 17-45.02]

Long-term permits are issued jointly to the operator of the port, private interests and the Corps of Engineers; however application for the permit and submission of applications may be made separately by each party. Each applicant shall identify in his submission his responsibilities for maintaining specific channels, turning basins or harbor berths and related dredged material disposal sites.

Relevant information pertaining to each party's maintenance dredging and disposal requirements and disposal management responsibilities shall be provided in the application. Where the application involves the shared use of disposal sites, the department will consider the combined requirements and effects of disposal.

Provide the name, address, telephone number and contact person for each separate applicant. If an agent is acting on behalf of any or all applicants, then also provide name, address and telephone number of agent. In addition,

list other joint applicants including names, addresses, and phone numbers.

2.2 Identification of Dredging Areas [F.A.C. 17-45.15 through 17-45.19]

On four copies of the most recent National Ocean Survey chart or equivalent, show the channel(s), turning basin(s), and berths within the area eligible for a long-term permit. Identify the major channel reaches, cuts, or navigational segments, turning basins and berthing areas by name or number and by latitude and longitude. Reference this information on the chart. Provide lengths, widths, and project depths in feet for referenced channel areas, turning basins and berthing areas (this should be displayed in chart form and in typical cross-sectional drawings).

2.3 Identification of Disposal Areas [F.A.C. 17-45.15 through 17-45.19]

2.3.1 Confined Dredged Material Disposal Sites - Provide the following:

(1) Four copies of vertical aerial photographs of each disposal site and adjacent areas at a scale of 1:10,000 (1 inch = 833 ft.) or larger.

(2) Vicinity map(s) in sufficient detail to show the relationship of the disposal areas to the navigational system or port area. Include graphic scale, north arrow, and local references such as streets.

(3) Section/Township/Range.

(4) Latitude and longitude.

(5) City and/or county.

(6) Ownership information, including tax appraiser's description of property, if available. Provide notarized <u>AFFIDAVIT OF OWNERSHIP OR CONTROL</u> of the property certifying that the applicant is the record owner, lessee, or record easement holder of the disposal site. If

the applicant is not one of the above, certification must be made that the requisite property interest will be acquired prior to commencement of disposal operations. A legal description of the property shall be provided as a part of the Affidavit.

(7) Name(s) and address(es) of adjoining property owners as they appear on the local tax roles. If the adjacent property is in multiple ownership, such as condominiums, please provide a common address which will reach the owners.

2.3.2 Beach Nourishment Disposal Sites - Provide the following:

(1) Four copies of vertical aerial photographs of each disposal site and adjacent areas at a scale of 1:10,000 (1 inch = 833 ft.), or larger.

(2) Vicinity map(s) showing location and boundaries of the disposal area and location of adjacent community. Include any other information to assist in locating the site as well as graphic scale and north arrow.

(3) Section/Township/Range.

(4) City and/or county.

2.3.3 Ocean Disposal - Provide the following:

(1) Vicinity map(s) showing location and boundaries of the disposal site, latitude and longitude, approximate distance from nearshore boundary of site to nearest point of land, and other information to assist in locating the site.

(2) Surface area and average depth of disposal area.

2.3.4 Other Disposal Areas:

Provide vicinity maps, photographs, and other relevent locational information, including latitude and longitude.

2.4 Information Requirements - Dredging Operations [F.A.C. 17-45.15 through 17-45.19]

As provided in Chapter 17-45, F.A.C., information relating to disposal site capacity, sediments and water quality, impacts on biological productivity, and other topics form the basis for issuance or denial of a long-term permit. The following information areas and those areas included under Section 2.5 of this guide are provided to assist in determining relevant topics for inclusion in the application.

To the extent possible, information should be organized by and referenced to channel segments, turning basins and berthing areas as identified on NOS charts (see Section 2.2) and in drawings. Information on <u>each</u> channel segment, etc. should be organized similar to items I through VIII below:

I. Summary Identification

A. Site name (names of basins, channel segments, berthing areas, etc.)

B. Latitude and longitude (to the second using the approximate center of each site).

C. Cubic yards (dredged or disposed, approximate volume in each event).

D. Frequencies (anticipated number of times dredging or deposition of material will occur).

II. Sediment characteristics for each site (channel segment, turning basin, etc., see Paragraph 2.4.1).

III. Water quality characteristics for each site (see Paragraph 2.4.2).

IV. Tidal characteristics/water circulation patterns (see Paragraph 2.4.3)

V. Natural Resources (see Paragraph 2.4.4).

VI. Volumes of Material (see Paragraph 2.4.5).

VII. Methods of Dredging (see Paragraph 2.4.6).

VIII. Disposal Sites (see Section 2.5, Paragraphs 2.5.1 through 2.5.7, as appropriate for identifying the disposal of material from each channel segment, turning basin, and berthing area).

2.4.1 Determine Sediment Characteristics.

(1) Physical characteristics:

(a) Grain size.

(b) Specific gravity.

(c) Settling rates.

(d) Atterburg limits.

(e) Void ratios.

(f) Bulking factors.

(g) Consolidation properties.

(2) Chemical characteristics (in accordance with EPA/Corps of Engineers guidelines and supplementary procedures provided in the DER DEEPWATER PORTS MAINTENANCE DREDGING AND DISPOSAL MANUAL):

(a) In consultation with DER, identify parameters for analysis.

(b) Determine metal to aluminum ratios as referenced in the Manual.

(c) Conduct elutriate tests (as appropriate subsequent to consultation with DER).

2.4.2 Determine Water Quality Characteristics In Dredge Areas.

(1) Physical characteristics:

(a) Depth.

(b) Temperature.

(c) Currents, tidal regime, and salinity.

(d) Dissolved oxygen.

(e) Turbidity and transparency.

(f) Conductivity.

(g) pH

(2) Chemical characteristics - Identify parameters in consultation with DER and analyze in accordance with EPA standard procedures and supplementary procedures provided in DER DEEPWATER PORTS MAINTENANCE DREDGING AND DISPOSAL MANUAL.

2.4.3 Determine tidal characteristics and water circulation patterns in dredge areas. At a minimum, show ebb and flow in tidal waters.

2.4.4 Identify key natural resources adjacent to channels and other areas of the navigational system, including marine grassbeds, reefs, oyster beds, clam beds and the relationship of these resources to establishing dredge area mixing zones.

2.4.5 Estimate volumes of dredge material to be removed in each area identified under Section 2.2 and the frequency of required dredging. Show how the amounts were calculated.

2.4.6 Identify dredging methods proposed for each area identified under Section 2.2.

2.5 Information Requirements - Disposal Operations [F.A.C. 17-45.15 through 17-45.19].

Dredging information provided in Section 2.4 identifying dredge areas, sediments, volumes, frequency, etc. should be clearly referenced to disposal sites identified in this Section (see item VIII under Section 2.4). Information on disposal sites and site management should be organized in this Section similar to the outline provided under Section 2.4.

2.5.1 Determine water quality characteristics of receiving waters adjacent to disposal area(s).

(1) Physical characteristics:

(a) Depth.

(b) Temperature.

(c) Currents, tidal regime, and salinity.

(d) Dissolved oxygen,

(e) Turbidity and transparency.

(f) Conductivity.

(g) pH

(2) Chemical Characteristics: Identify parameters in consultation with DER and analyze in accordance with EPA standard procedures and supplementary procedures provided in DER <u>DEEPWATER PORTS MAINTENANCE DREDGING AND DISPOSAL MANUAL</u>.

2.5.2 Determine tidal characteristics and water circulation patterns at or adjacent to disposal areas.

2.5.3 Identify key natural resources adjacent to disposal areas and determine the relationship of these resources to establishing disposal area mixing zones.

2.5.4 Confined Dredged Material Disposal Areas.

The following information is required in addition to the general requirements of Sections 2.5.1 - 2.5.3.

(1) Provide a plan view (top view) drawing showing existing shoreline(s), ebb and flood of tidal waters, approximate mean high and mean low waterlines, and principal dimensions of dikes, weirs, or other structures.

(2) Provide cross-sectional and profile view of dikes, weirs and other major features, and if site is waterward of the line of mean high water show the mean high and mean low water elevations.

(3) Describe vegetative characteristics of disposal site and adjacent area and wildlife use of the areas.

(4) Identify navigational areas contributing dredged material to the site (information from Section 2.4, items I-VIII).

(5) Estimate the site capacity and service life, and provide calculations used in making estimates. Assess ability of site to meet overall port maintenance dredging needs.

(6) Estimate expected effluent quality and, taking into account adjacent natural resources, propose a mixing zone(s) for disposal site return water discharge.

(7) Provide a description of the disposal site management program, including dewatering activities, site maintenance, environmental pro-

tection measures, plans for reuse of material, etc. If proposed site is a new or modified site, provide construction methods.

(8) Describe proposed disposal monitoring and tracking program.

2.5.5 Beach Nourishment.

(1) Provide plan view drawing showing existing shoreline, approximate mean high and mean low waterlines, disposal area, and adjacent natural resources.

(2) Identify navigational area(s) contributing material to the site and applicant should propose a mixing zone. Identify technique proposed for deposition of material.

(3) Estimate volume of material disposed in each dredging event, frequency of use, and ability of site(s) to meet overall port maintenance dredging needs.

(4) Provide status of Department of Natural Resources approvals (see Appendices A and B).

(5) Describe proposed disposal monitoring program.

2.5.6 Ocean Disposal

(1) Identify navigational areas contributing material to the site.

(2) Estimate volume of material to be disposed during each dredging event, frequency of use, and ability of site to meet overall port maintenance dredging needs.

(3) Provide status of federal approvals and, if located in state waters, Department of Natural Resources approvals (see Appendix A).

2.5.7 Other Methods of Disposal.

In most cases, information needs will be similar to that outlined above.

2.6 Applicant's Authorization and Certification.

The applicant shall provide the following statement:

Application is made for a permit to authorize the activities described herein.

A. I authorize the agent identified herein to negotiate modifications or revisions, when necessary, and accept or assent to any stipulations on my behalf.

B. I understand I may have to provide any additional information or data that may be necessary to provide reasonable assurance or evidence to show that the proposed project will comply with the applicable State Water Quality Standards or other environmental standards both before construction and after the project is completed.

C. In addition, I agree to provide entry to the project site(s) for inspectors with proper identification or documents as required by law from the environmental agencies for the purpose of making preliminary analyses of the site. Further, I agree to provide entry to the project site for such inspectors to monitor permitted work if a permit is granted.

D. Further, I hereby acknowledge the obligation and responsibility of obtaining all of the required state, federal or local permits before commencement of construction activities. I also understand that before commencement of this proposed project I must be granted separate permits or authorizations from the U.S. Corps of Engineers, the U.S. Coast Guard, the Department of Environmental Regulation, and the Department of Natural Resources, as necessary.

I CERTIFY that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete and accurate. I further certify that I possess the authority to undertake the proposed activities.

_____ _____

Signature of Applicant Date

NOTE: THIS APPLICATION MUST BE SIGNED by the person who desires to undertake the proposed activity or by an authorized agent. If an agent is applying on behalf of the applicant, attach proof of authority for the agent to sign and bind the applicant.

APPENDIX A

Use of State Lands

PART I. GENERAL INFORMATION

The purpose of this appendix is to list the information that is required by the Board of Trustees of the Internal Improvement Trust Fund to obtain a letter of consent, submerged land lease, easement, or other form of consent sought pursuant to Chapter 253.77, Florida Statutes. Copies of Florida Administrative Code Rules 16Q-21 (Sovereignty Submerged Lands Management Rule), 16Q-20 (Florida Aquatic Preserve Rule), and 16Q-18 (Biscayne Bay Aquatic Preserve Rule) of the Department of Natural Resources, showing the more detailed requirements, and criteria for approval are available upon request. A copy of an application submitted to the Department of Environmental Regulation satisfies many of the information items required by the above rules and will be forwarded to DNR. The Bureau of State Lands Management will review the application for compliance with the administrative rules of the Department of Natural Resources. Additional information will be requested if needed. Exemption from Department of Environmental Regulation permitting requirements does not relieve anyone using state-owned lands from soliciting consent or other authorization from Department of Natural Resources unless specifically exempt under Florida Administrative Code Rule 16Q-21. Questions concerning the status of the application can be obtained by calling the DER/DNR Coordinator at 904/488-9120. All correspondence should be directed to:

Department of Natural Resources
Bureau of State Lands Management
3900 Commonwealth Boulevard
Room 203
Tallahassee, Florida 32303

The following additional information should be provided to assist the Board of Trustees in considering the proposed activity:

1. Two copies of a map 8 1/2" x 11" in size showing the approximate ordinary or mean high water line, locations of existing shoreline vegetation, proposed structures and existing structures, applicant's upland property lines, primary navigation channels, and indicating the direction to the center of the affected water body.

2. If dredging is proposed, an estimate of the number of cubic yards of sovereignty (state-owned) materials to be removed showing how the amount was calculated.

3. Project description which should include the statement of need and proposed use of the parcel sought.

4. Satisfactory evidence of title for the applicant's existing uplands in the form of:

a. current title insurance policy issued by a title insurance company authorized to do business in Florida; or

b. opinion of title prepared by a member of the Florida Bar; and

c. affidavit of ownership attesting to the currency of the current title insurance policy or opinion of title, if required by the Department of Natural Resources.

5. Multiple boat slip facilities may require an affidavit attesting that the facility will not be a revenue generating/income producing

facility.

6. A statement demonstrating in detail that the proposed project will be in the public interest for applications within an Aquatic Preserve as defined in Chapter 258, Florida Statutes. In addition, a statement concerning extreme hardship on the part of the applicant may be required for projects in Biscayne Bay, Boca Ciega Bay, and Lake Jackson Aquatic Preserves.

PART II. SPECIFIC INFORMATION

The following information is not required (by the Bureau of State Lands Management) until a determination has been made that sovereignty (state-owned) lands are involved and that a lease, easement, etc., is required. At that time, the applicant will be notified by DNR of the decision and the following information will be requested:

1. Leases and Easements - These surveys must clearly define the boundaries of the parcel sought and ownership lines of the riparian uplands. Lease surveys must include all structures to be constructed within the area sought for leasing, as well as existing structures.

Please note that the proposed structures should not extend closer than 25 feet from the riparian ownership of the applicant's upland property as extended waterward toward the channel or center of the body of water.

a. A legal or metes and bounds description of the area of state-owned submerged land referencing the section, township, range, name of the affected body of water, county, and point of commencement of the proposed area from a known point on the mean or ordinary high water line. The area must be calculated in acreage for easement and reclamation projects or in square footage for submerged land leases.

b. Prints of survey utilizing an appropriate scale on 8 1/2 x 14" size paper and prepared by a person properly licensed by the Florida State Board of Land Surveyors, or an agent of the Federal Government, acceptable to the Department of Natural Resources, clearly showing the boundaries of the parcel sought.

c. Name and address, as they appear on the latest county tax assessment roll, of each owner of riparian uplands lying within a 1,000 foot radius of the proposed submerged land lease area, verified by the county property appraisers' office, verifying that these name came from the latest tax assessment rolls. Names and addresses shall be clearly typed, preferably on labels suitable for mailing and acceptable to the Department.

d. Written comments from the Department of Environmental Regulation in the form of a permit appraisal or biological assessment, and a letter of intent, if issued.

e. All applications for submerged land leases must have approval or letter of no objection from the appropriate city or county government. Failure to obtain approval will result in automatic deactivation or denial of application.

2. Reclamation of Land Lost by Avulsion or Artificially Induced Erosion - This survey must clearly define the applicant's upland, U.S. Meander Line, the approximate original mean high water line, the existing approximate mean high water line with a land tie to an established reference point, and elevations in

areas exposed at mean high tide. In addition to the survey, the following information will be needed:

a. Two affidavits executed by disinterested parties evidencing the manner, as accurately as possible from personal knowledge, that the loss of land occurred as avulsive action (storms, hurricanes).

b. Accurate aerial photographs showing the date of flight evidencing the location and configuration of the original shoreline. Suggested sources are local office of the Department of Transportation, Tax Assessor's office or the Army Corps of Engineers.

c. Statement of the proposed method of reclaiming the lost lands, if not indicated on the Department of Environmental Regulation permit application form.

PART III. FEES

1. A non-refundable processing fee in the amount of $200.00 for a submerged land lease or an easement for private purposes.

2. Annual fee, computed at $0.045 per square foot or a minimum of $225.00, whichever is greater, payable to the Department of Natural Resources upon approval of a submerged land lease. (The annual fee is subject to change upon adoption of a rule revising this rate.)

3. Florida Department of Revenue registration number. Leases without sales tax exemption certificate shall be subject to Florida State sales tax pursuant to Chapter 212., F.S.

4. Payment for severed material shall be submitted in the following amounts:

(a) $3.25 per cubic yard in Monroe County.

(b) $2.25 per cubic yard in Bay, Brevard, Broward, Charlotte, Collier, Dade, Duval, Escambia, Hillsborough, Lee, Manatee, Palm Beach, Pasco, Pinellas and Sarasota counties.

(c) $1.25 for all other counties.

(d) The minimum payment of $50.

APPENDIX B

Coastal Construction Permits

Section 161.041, Florida Statutes, states: "If any person, firm, corporation, county, municipality, township, special districts, or any public agency shall desire to make any coastal construction or reconstruction or change of existing structures, or any construction or physical activity undertaken specifically for shore protection purposes, or other structures and physical activity including groins, jetties, moles, and breakwaters, seawalls, revetments and artificial nourishment or other deposition or removal of beach material or other structures if of a solid or highly impermeable design, upon sovereignty lands of Florida, below the mean high waterline of any tidal water of the state, a permit must be obtained from the Department of Natural Resources prior to the commencement of such work."

Application is made in accordance with Florida Administrative Code Rule 16B-24.05, as follows:

A. Any person desiring to obtain a coastal construction permit from the Department shall submit an application to the Bureau of Beaches and Shores, Department of Natural Resources, 3900 Commonwealth Boulevard, Tallahassee, Florida 32303, which shall contain the following specific information:

(1) Name, address and phone number of applicant or his duly authorized agent.

(2) Statements describing the proposed erosion control structure, the problem, its causes and the expected effect of the proposed erosion control structure on the problem and on adjacent property.

B. The application shall be accompanied by a location map for use in public notices. This map shall be on either letter size or legal size paper showing the location of each proposed erosion control structure(s) to approximate scale and the shoreline for at least 1,000 feet beyond the proposed erosion control structure(s).

The following information shall be shown on the location map.

(1) Name of applicant.

(2) Section, township, and range in which the subject property is located.

(3) Location by town and county.

(4) Name of water body.

(5) Brief work description or title of project.

(6) General identifying landmarks.

(7) Legend or tables to identify graphic objects.

(8) Date.

(9) Scale and north arrow.

C. The applicant shall provide the Department with evidence of his ownership and legal description of the property seaward or channelward of which the erosion control structure(s) is or is proposed to be located. If the applicant is not the property owner, the applicant shall provide the department with a duly

executed statement from the owner of record consenting to the proposed erosion control structure.

D. Except for coastal construction permit applications from duly constituted governmental units, all permit applications shall be accompanied by a $100 fee made payable to the Department of Natural Resources. This application fee is charged to offset the cost of processing of the application for the permit and is non-returnable.

E. Estimate the construction starting date and completion date.

F. Submit a set of construction plans and specifications for the erosion control structure, certified by a professional engineer registered in the State of Florida containing, but not limited to, the following:

(1) Plan view of structure with mean high and mean low water lines extending at least 100 feet high on each side of proposed structure.

(2) Elevation view of structure with mean sea level, mean high water and mean low water indicated.

(3) Profile of beach at proposed structure from dune crest to at least 100 feet beyond the seaward or channelward extremity of the structure. Elevation should be referenced to sea level datum (1929).

(4) Details of construction, including materials to be used.

G. The applicant shall provide to the Department a list of the names and addresses from the latest county tax roll of owners of all riparian property within 1,000 feet of the proposed construction.

H. Separate applications shall be made for unrelated projects involving noncontiguous parcels of upland property. Joint applications may be made in cases of related construction involving contiguous parcels of upland property.

I. The Department may require such additional information as is reasonably necessary for proper evaluation of an application.

J. The Department may waive any of the above requirements if, in the opinion of the Department, such information is not necessary for a proper evaluation of the proposed work.

This application, as described above, must be mailed to:

Bureau of Beaches and Shores
Department of Natural Resources
3900 Commonwealth Building
Tallahassee, Florida 32303

Concurrently, the application described in the section entitled "Application Instructions" must be completed and mailed to the Department of Environmental Regulation for processing by DER and the Corps.

APPENDIX C

DATA REPORTING SHEETS

RAW DATA SHEET #1
SEDIMENT ANALYSIS RESULTS

Port _____
Applicant _____
Dredging Area _____
Date Samples Collected _____

Sampling Station _____
Location:
Longitude _____
Latitude _____

	REPLICATE		
	I	II	III
ppm (dry basis)			
Aluminum	_____	_____	_____
Arsenic	_____	_____	_____
Cadmium	_____	_____	_____
Chromium	_____	_____	_____
Copper	_____	_____	_____
Iron	_____	_____	_____
Lead	_____	_____	_____
Manganese	_____	_____	_____
Mercury	_____	_____	_____
Nickel	_____	_____	_____
Silver	_____	_____	_____
Zinc	_____	_____	_____
Total solids (%)	_____	_____	_____
Oil & grease	_____	_____	_____
Sulfate	_____	_____	_____
Ammonia-N	_____	_____	_____
Total Kjeldahl nitrogen	_____	_____	_____
Total organic carbon	_____	_____	_____
TKN:TOC	_____	_____	_____
Nitrate-N	_____	_____	_____
Total phosphorus	_____	_____	_____

RAW DATA SHEET #2
SEDIMENT ANALYSIS RESULTS

Port _____
Applicant _____
Dredging Area _____
Date Samples Collected _____

Sampling Station _____
Location:
Longitude _____
Latitude _____

	REPLICATE		
	I	II	III
ppm (dry basis)			
Mirex	____	____	____
Toxaphene	____	____	____
DDT	____	____	____
Aldrin	____	____	____
Chlordane	____	____	____
PCB's	____	____	____
Grain Size: % passing thru sieve			
Number: 4 (4.76mm)	____	____	____
10 (2.0mm)	____	____	____
20 (0.84mm)	____	____	____
40 (0.42mm)	____	____	____
60 (0.25mm)	____	____	____
100 (0.149mm)	____	____	____
200 (0.074mm)	____	____	____
Hydrometer: %<0.01 mm	____	____	____
%<0.005 mm	____	____	____
%<0.001 mm	____	____	____
Specific Gravity	____	____	____

RAW DATA SHEET #3
WATER COLUMN ANALYSIS RESULTS

Port _____
Applicant _____
Dredging Area _____
Date Samples Collected _____

Sampling Station _____
Location:
Longitude _____
Latitude _____

	REPLICATE		
	I	II	III
µg/l (ppb)			
Arsenic	____	____	____
Cadmium	____	____	____
Chromium	____	____	____
Copper	____	____	____
Iron	____	____	____
Lead	____	____	____
Mercury	____	____	____
Nickel	____	____	____
Silver	____	____	____
Zinc	____	____	____
mg/liter			
Total suspended solids	____	____	____
Total organic carbon	____	____	____
Ammonia-N	____	____	____
Total Kjeldahl nitrogen	____	____	____
Nitrate-N	____	____	____
Total phosphorus	____	____	____

RAW DATA SHEET #4
ELUTRIATE SITE WATER

Port _____
Applicant _____
Dredging Area _____
Date Samples Collected _____

Sampling Station _____
Location:
Longitude _____
Latitude _____

	REPLICATE		
	I	II	III
µg/l (ppb)			
Arsenic	_____	_____	_____
Cadmium	_____	_____	_____
Chromium	_____	_____	_____
Copper	_____	_____	_____
Iron	_____	_____	_____
Lead	_____	_____	_____
Mercury	_____	_____	_____
Nickel	_____	_____	_____
Silver	_____	_____	_____
Zinc	_____	_____	_____
mg/liter			
Total suspended solids	_____	_____	_____
Total organic carbon	_____	_____	_____
Ammonia-N	_____	_____	_____
Total Kjeldahl nitrogen	_____	_____	_____
Nitrate-N	_____	_____	_____
Total phosphorus	_____	_____	_____

RAW DATA SHEET #5
ELUTRIATE TEST RESULTS

Port _____
Applicant _____
Dredging Area _____
Date Samples Collected _____

Sampling Station _____
Location:
Longitude _____
Latitude _____

	REPLICATE		
	I	II	III
µg/l (ppb)			
Arsenic	_____	_____	_____
Cadmium	_____	_____	_____
Chromium	_____	_____	_____
Copper	_____	_____	_____
Iron	_____	_____	_____
Lead	_____	_____	_____
Mercury	_____	_____	_____
Nickel	_____	_____	_____
Silver	_____	_____	_____
Zinc	_____	_____	_____
mg/liter			
Total suspended solids	_____	_____	_____
Total organic carbon	_____	_____	_____
Ammonia-N	_____	_____	_____
Total Kjeldahl nitrogen	_____	_____	_____
Nitrate-N	_____	_____	_____
Total phosphorus	_____	_____	_____

DATA SUMMARY TABLE #1

GENERAL PHYSICAL AND CHEMICAL SEDIMENT CHARACTERISTICS

Port _____ Date Submitted _____

Applicant _____

STATION / PARAMETER ppm {dry basis}												
	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ
SPECIFIC GRAVITY												
TOTAL KJELDAHL NITROGEN												
TOTAL ORGANIC CARBON												
AMMONIA -N												
TOTAL PHOSPHORUS - P												
NITRATE - N												
OIL AND GREASE												
BIOCHEMICAL OXYGEN DEMAND {mg O_2/kg}												
TOTAL SOLIDS {%}												
SULFATE												
MEAN GRAIN SIZE												

DATA SUMMARY TABLE #2

INORGANIC SEDIMENT QUALITY

Port _____ Date Submitted _____

Applicant _____

STATION / PARAMETER ppm {dry basis}														
	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ
ALUMINUM														
CADMIUM														
CHROMIUM														
COPPER														
IRON														
LEAD														
MERCURY														
NICKEL														
SILVER														
ZINC														
MANGANESE														
ARSENIC														

DATA SUMMARY TABLE #3

ORGANIC SEDIMENT QUALITY

Port _____ Date Submitted _____

Applicant _____

STATION / PARAMETER ppm (dry basis)																						
PESTICIDES	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ
MIREX																						
TOXAPHENE																						
DDT																						
ALDRIN																						
CHLORDANE																						
OTHER CHLORINATED (DDE)																						
PCB's																						
OIL AND GREASE																						
PHENOLS																						
PHENOL																						
2-CHLOROPHENOL																						
2,4-DICHLOROPHENOL																						
2,4,6-TRICHLOROPHENOL																						
4-CHLORO M CRESOL																						
2,4 DINITROPHENOL																						
PENTACHLOROPHENOL																						

DATA SUMMARY TABLE #4

GENERAL PHYSICAL AND CHEMICAL WATER QUALITY CHARACTERISTICS

Port _____ Date Submitted _____

Applicant _____

STATION / PARAMETER											STANDARD
TEMPERATURE (°C)											
SALINITY (ppt)											
pH											
DISSOLVED OXYGEN mg/l											
DISSOLVED OXYGEN % SATURATION											
TURBIDITY (NTU)											
CONDUCTIVITY (μmhos)											
TOTAL KJELDAHL NITROGEN (mg/l)											
AMMONIA - N											
PHOSPHATE - P											
NITRATE - N											
TOTAL ORGANIC CARBON											
TOTAL SUSPENDED SOLIDS mg/l											

DATA SUMMARY TABLE #5

INORGANIC WATER QUALITY

Port _____ Date Submitted _____

Applicant _____

STATION / PARAMETER µg/liter																	STANDARD
	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	MEAN	σ	
CADMIUM																	
COPPER																	
IRON																	
LEAD																	
MERCURY																	
NICKEL																	
SILVER																	
ZINC																	
ARSENIC																	

DATA SUMMARY TABLE #6

ELUTRIATE RESULTS

Port _____ Date Submitted _____

Applicant _____

STATION / PARAMETER µg/l	MEAN	σ	MEAN	σ	MEAN	σ	STANDARD
ARSENIC							
CADMIUM							
COPPER							
IRON							
LEAD							
MERCURY							
NICKEL							
SILVER							
ZINC							
FLORIDE							
TOTAL KJELDAHL NITROGEN							
TOTAL ORGANIC CARBON							
AMMONIA - N							
NITRATE - N							
TOTAL PHOSPHORUS							

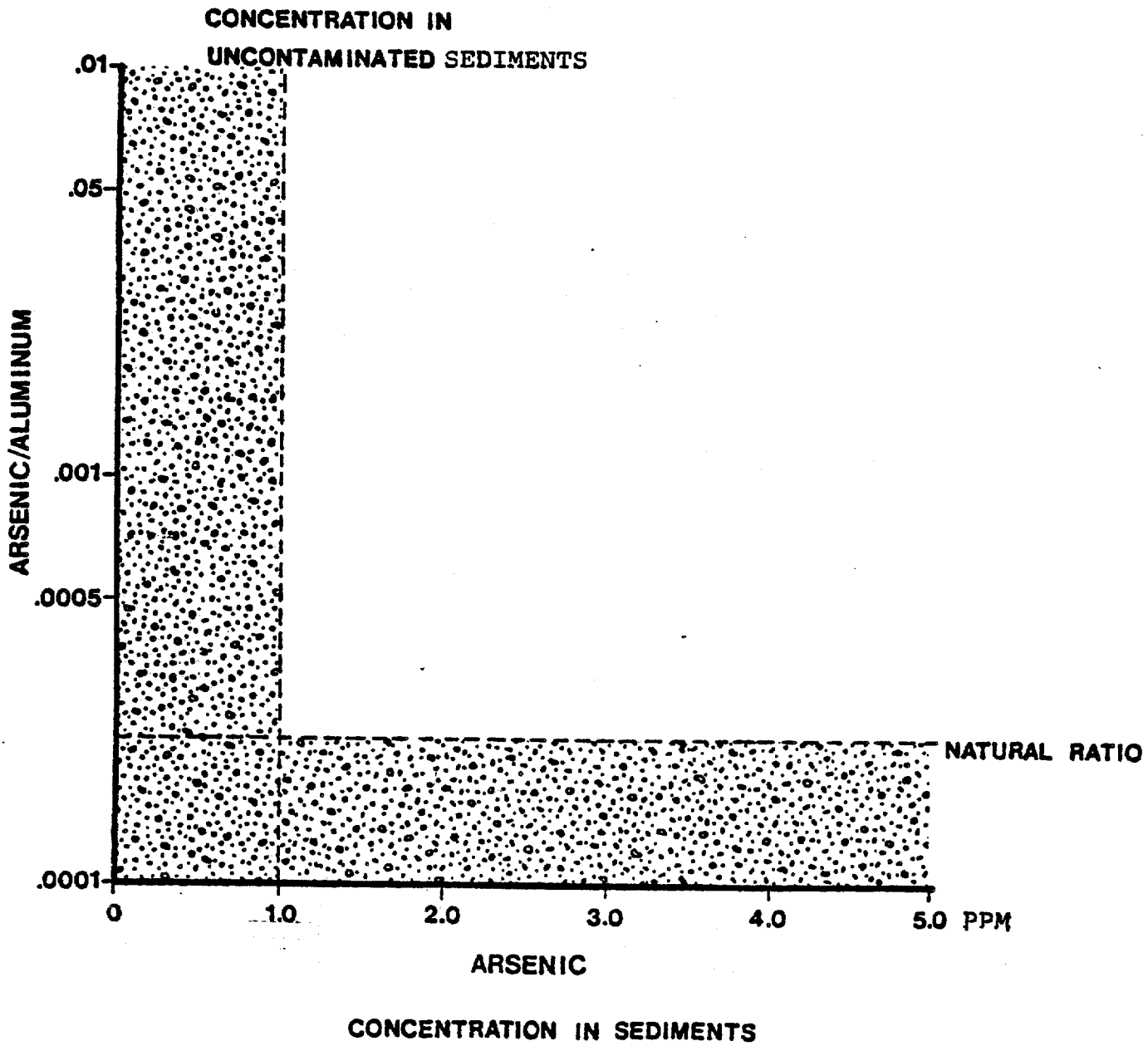
APPENDIX D

Graphs For Plotting Metal To Aluminum Ratios

Graph #1

Total Cadmium Concentration Versus
Cadmium to Aluminum Ratio

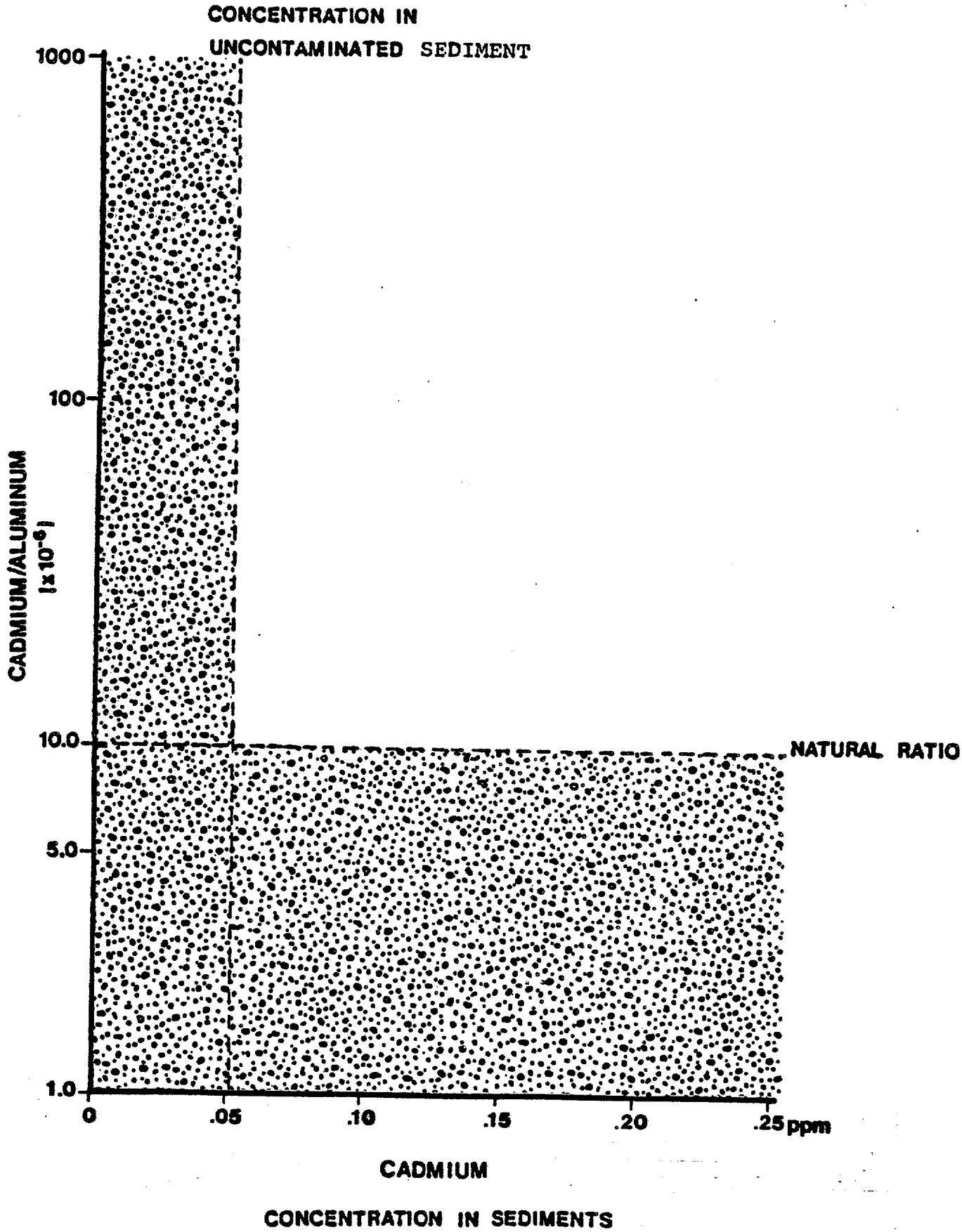
Port _____ Date Submitted _____
Applicant _____



Graph #2

Total Cadmium Concentration Versus
Cadmium to Aluminum Ratio

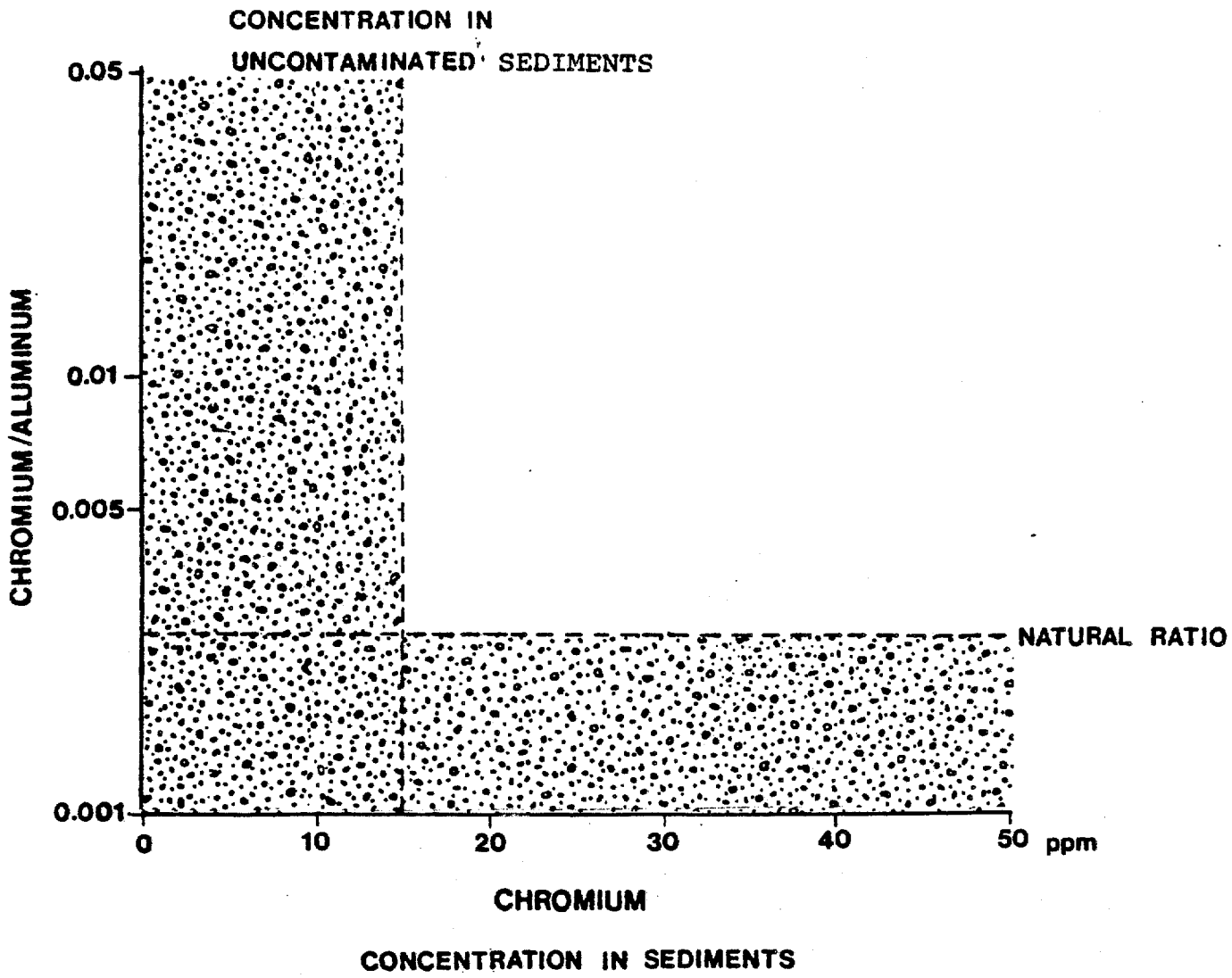
Port _____ Date Submitted _____
Applicant _____



Graph #3

Total Chromium Concentration Versus
Chromium to Aluminum Ratio

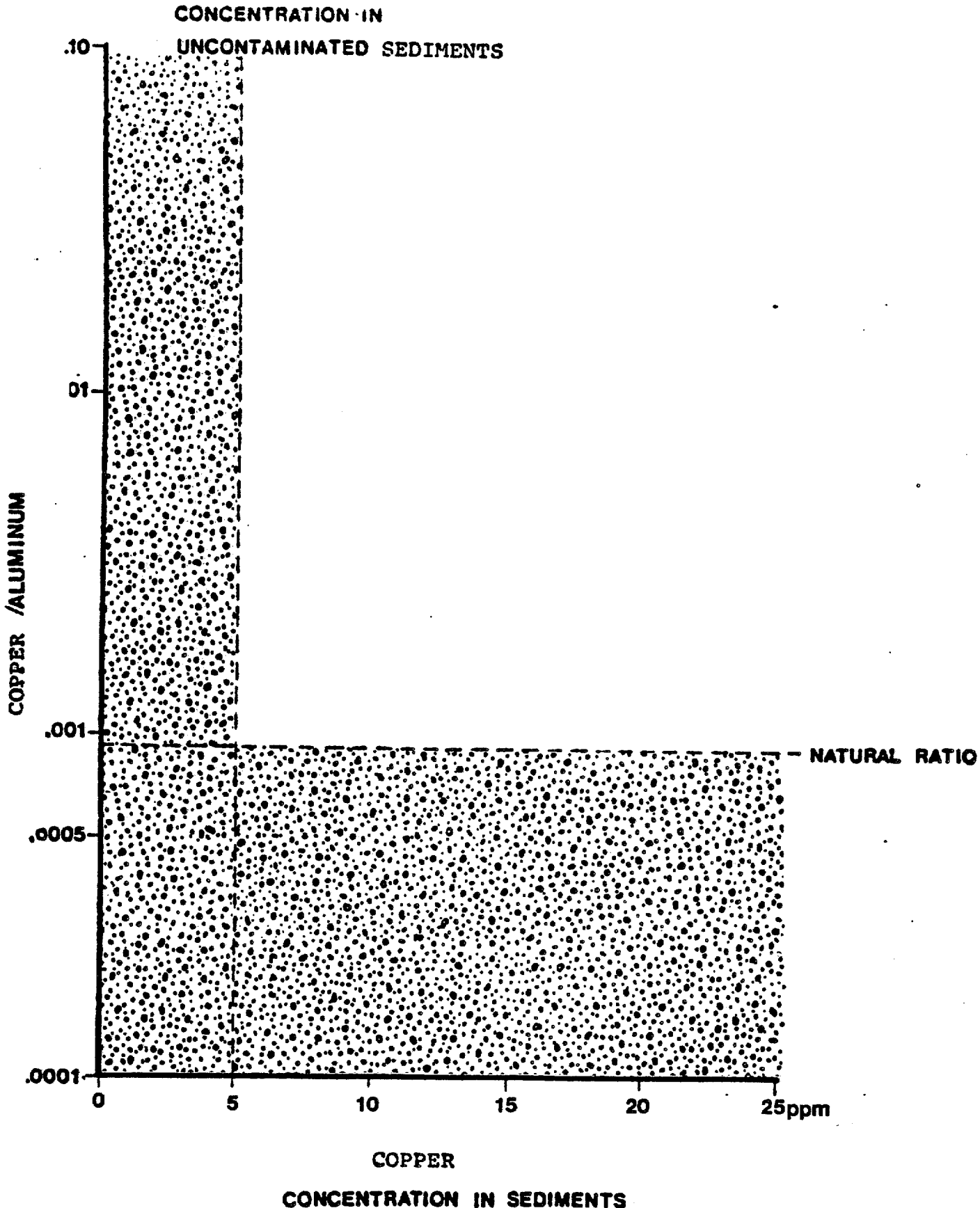
Port _____ Date Submitted _____
Applicant _____



Graph #4

Total Copper Concentration Versus
Copper to Aluminum Ratio

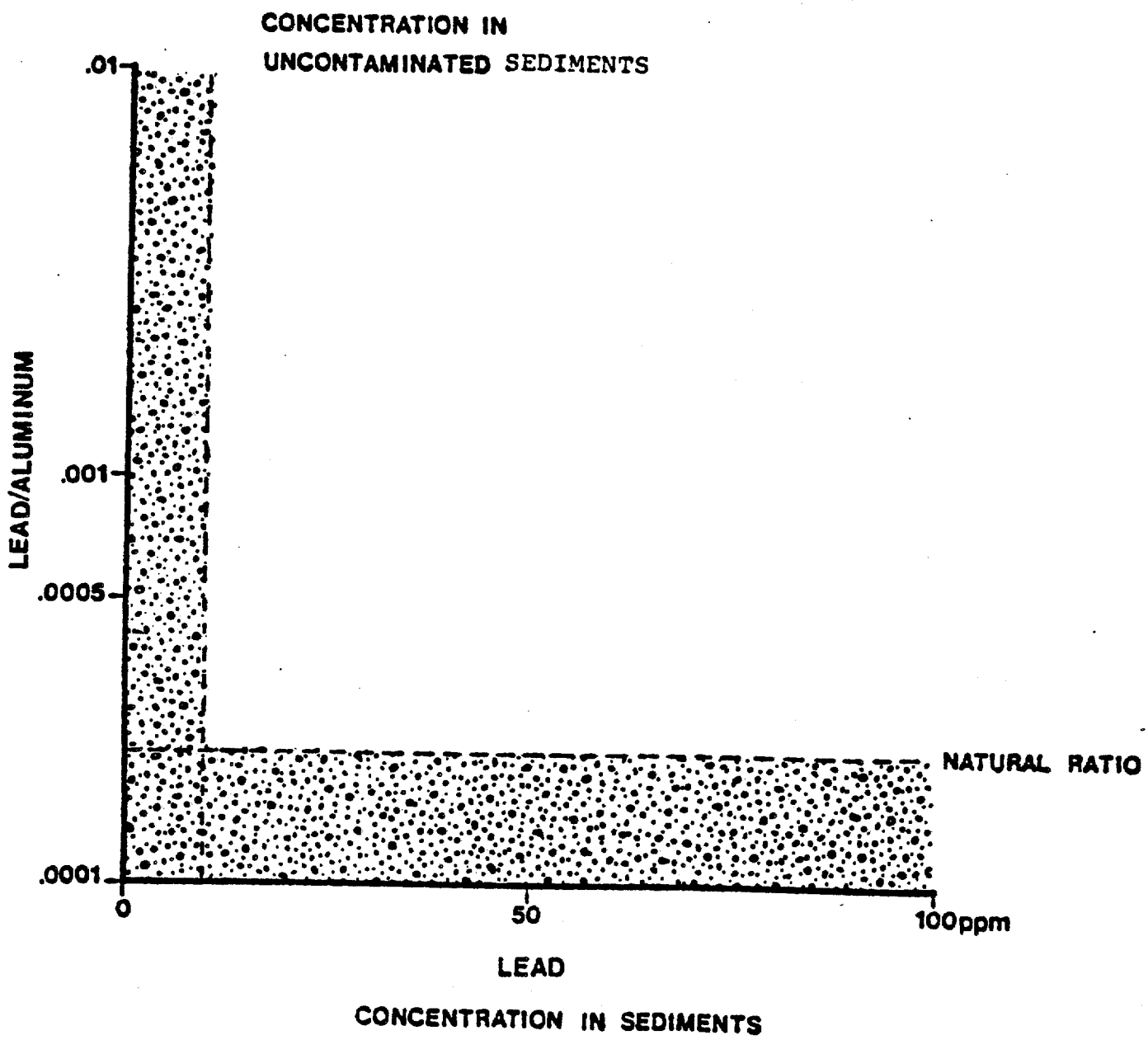
Port _____ Date Submitted _____
Applicant _____



Graph #5

Total Lead Concentration Versus
Lead to Aluminum Ratio

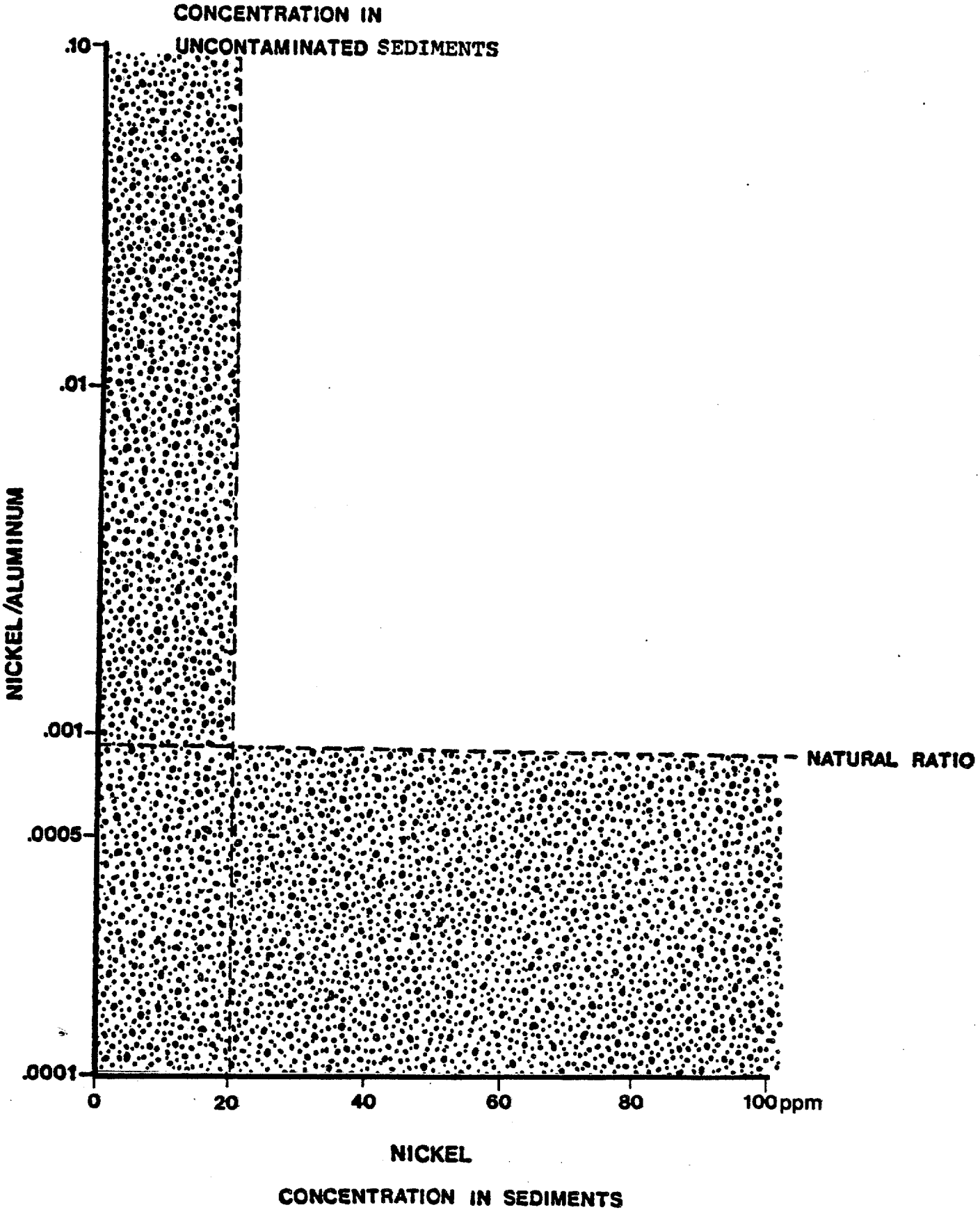
Port _____ Date Submitted _____
Applicant _____



Graph #6

Total Nickel Concentration Versus
Nickel to Aluminum Ratio

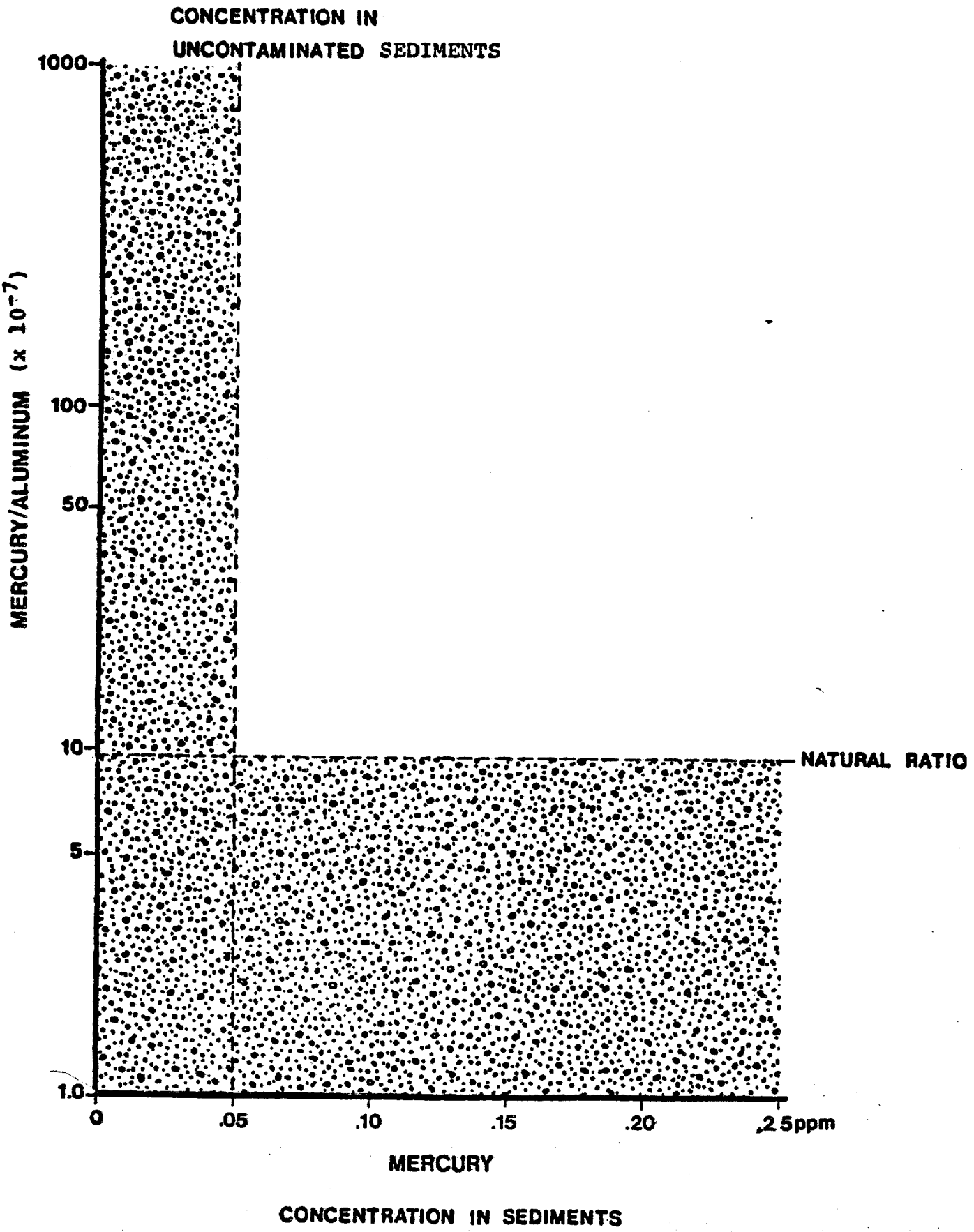
Port _____ Date Submitted _____
Applicant _____



Graph #7

Total Mercury Concentration Versus
Mercury to Aluminum Ratio

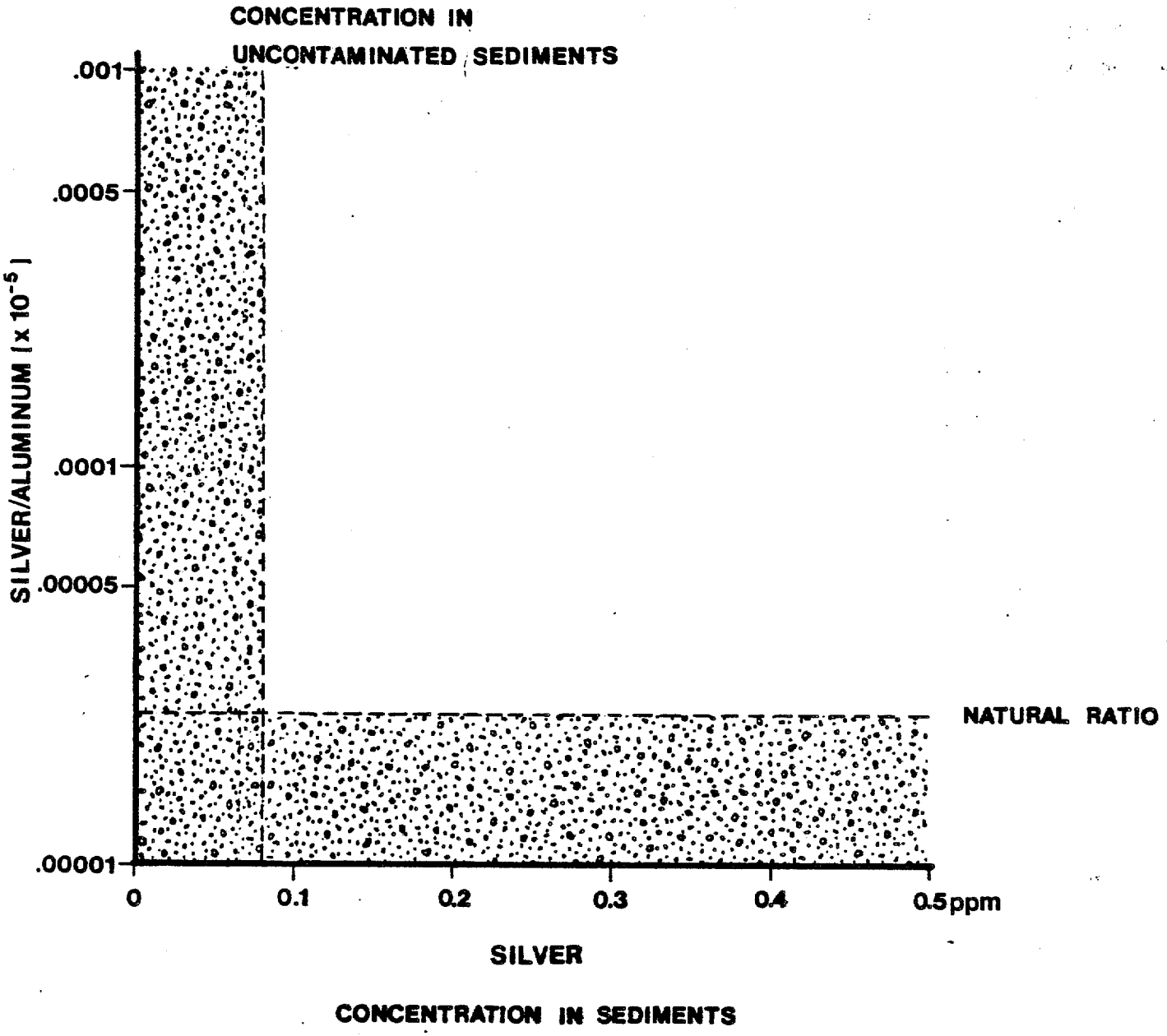
Port _____ Date Submitted _____
Applicant _____



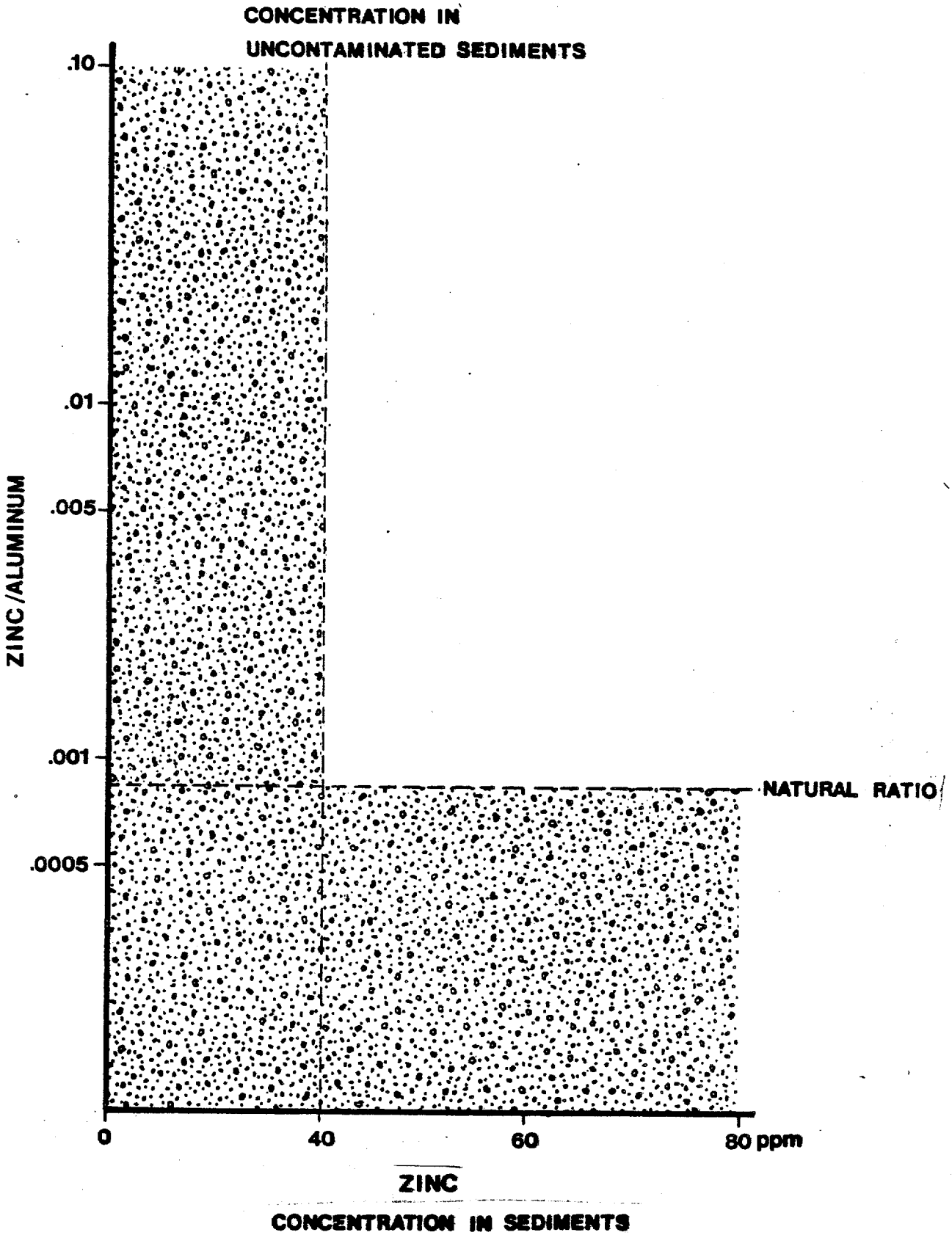
Graph #8

Total Silver Concentration Versus
Silver to Aluminum Ratio

Port _____ Date Submitted _____
Applicant _____



Graph #9

Total Zinc Concentration Versus
Zinc to Aluminum Ratio

Port _____ Date Submitted _____
Applicant _____