Washington Location Finder Project

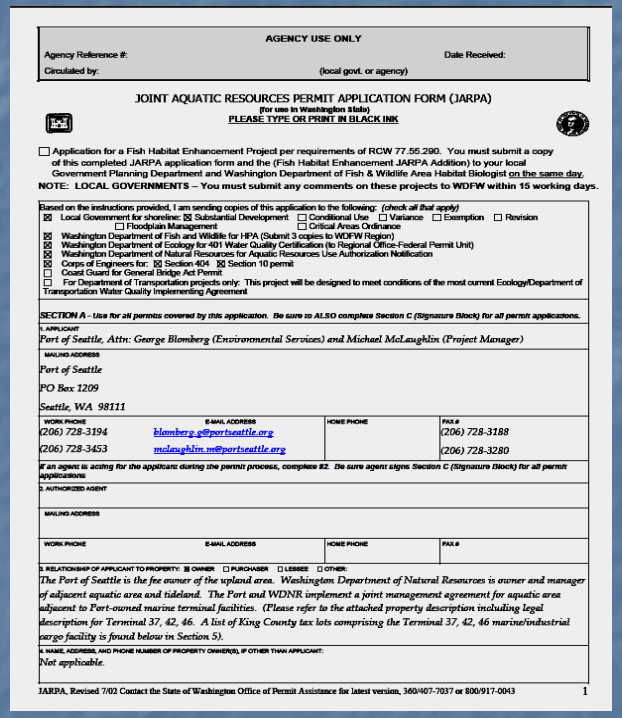
Partners:
Washington Department of Ecology
Washington Department of Health
US Environmental Protection Agency

Business Team
10/18/2007

Agenda

- Review Of Washington Location Finder Objectives & Scope
- View E-permitting Implementation Of Address Standardization, Map Location Selection, Geoprocessing
- Status
- What’s Next?

Background



AGENCY USE ONLY

Agency Reference #: Date Received:

Circulated by: (local govt. or agency)

JOINT AQUATIC RESOURCES PERMIT APPLICATION FORM (JARPA)

(for use in Washington State)

PLEASE TYPE OR PRINT IN BLACK INK

☐ Application for a Fish Habitat Enhancement Project per requirements of RCW 77.55.290. You must submit a copy of this completed JARPA application form and the (Fish Habitat Enhancement JARPA Addition) to your local Government Planning Department and Washington Department of Fish & Wildlife Area Habitat Biologist on the same day.

NOTE: LOCAL GOVERNMENTS – You must submit any comments on these projects to WDFW within 15 working days.

Based on the instructions provided, I am sending copies of this application to the following: *(check all that apply)*

☒ Local Government for shoreline: ☒ Substantial Development ☐ Conditional Use ☐ Variance ☐ Exemption ☐ Revision
☐ Floodplain Management ☐ Critical Areas Ordinance
☒ Washington Department of Fish and Wildlife for HPA (Submit 3 copies to WDFW Region)
☒ Washington Department of Ecology for 401 Water Quality Certification (to Regional Office-Federal Permit Unit)
☒ Washington Department of Natural Resources for Aquatic Resources Use Authorization Notification
☒ Corps of Engineers for: ☒ Section 404 ☒ Section 10 permit
☐ Coast Guard for General Bridge Act Permit
☐ For Department of Transportation projects only: This project will be designed to meet conditions of the most current Ecology/Department of Transportation Water Quality Implementing Agreement

SECTION A – Use for all permits covered by this application. Be sure to ALSO complete Section C (Signature Block) for all permit applications.

1. APPLICANT
Port of Seattle, Attn: George Blomberg (Environmental Services) and Michael McLaughlin (Project Manager)

MAILING ADDRESS
Port of Seattle
PO Box 1209
Seattle, WA 98111

WORK PHONE	E-MAIL ADDRESS	HOME PHONE	FAX #
(206) 728-3194	blomberg.g@portseattle.org		(206) 728-3188
(206) 728-3453	mclaughlin.m@portseattle.org		(206) 728-3280

If an agent is acting for the applicant during the permit process, complete #2. Be sure agent signs Section C (Signature Block) for all permit applications

2. AUTHORIZED AGENT

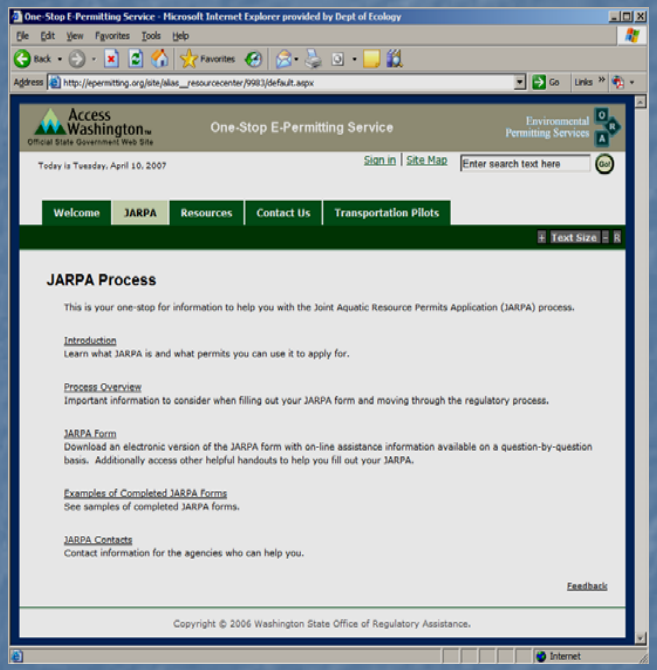
MAILING ADDRESS

WORK PHONE	E-MAIL ADDRESS	HOME PHONE	FAX #

3. RELATIONSHIP OF APPLICANT TO PROPERTY: ☒ OWNER ☐ PURCHASER ☐ LESSEE ☐ OTHER:
The Port of Seattle is the fee owner of the upland area. Washington Department of Natural Resources is owner and manager of adjacent aquatic area and tideland. The Port and WDNR implement a joint management agreement for aquatic area adjacent to Port-owned marine terminal facilities. (Please refer to the attached property description including legal description for Terminal 37, 42, 46. A list of King County tax lots comprising the Terminal 37, 42, 46 marine/industrial cargo facility is found below in Section 5).

4. NAME, ADDRESS, AND PHONE NUMBER OF PROPERTY OWNER(S), IF OTHER THAN APPLICANT:
Not applicable.

JARPA, Revised 7/02 Contact the State of Washington Office of Permit Assistance for latest version, 360/407-7037 or 800/917-0043 1



Joint Aquatic Resources Permit Application (JARPA)

Project Objectives Review

- Increase The Accuracy Of Data Submitted For Environmental Review
- Make On-line Applications Easier To Use
- Standardize Data Entry Methods For Site Locations

Project Scope Review

- Develop An Interactive Map-based Location Editor
- Develop Geo-processing Services
- Develop An Address Correction Service & Standardization Service
- Develop An Address Geo-coding Service
- Interface These Services With The E-permitting And Other Applications

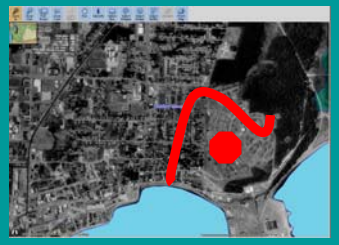
Location Finder Services

On-Line Applications

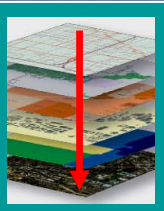
•JARPA
•WDOH Applications

Address Geo-Coding Services

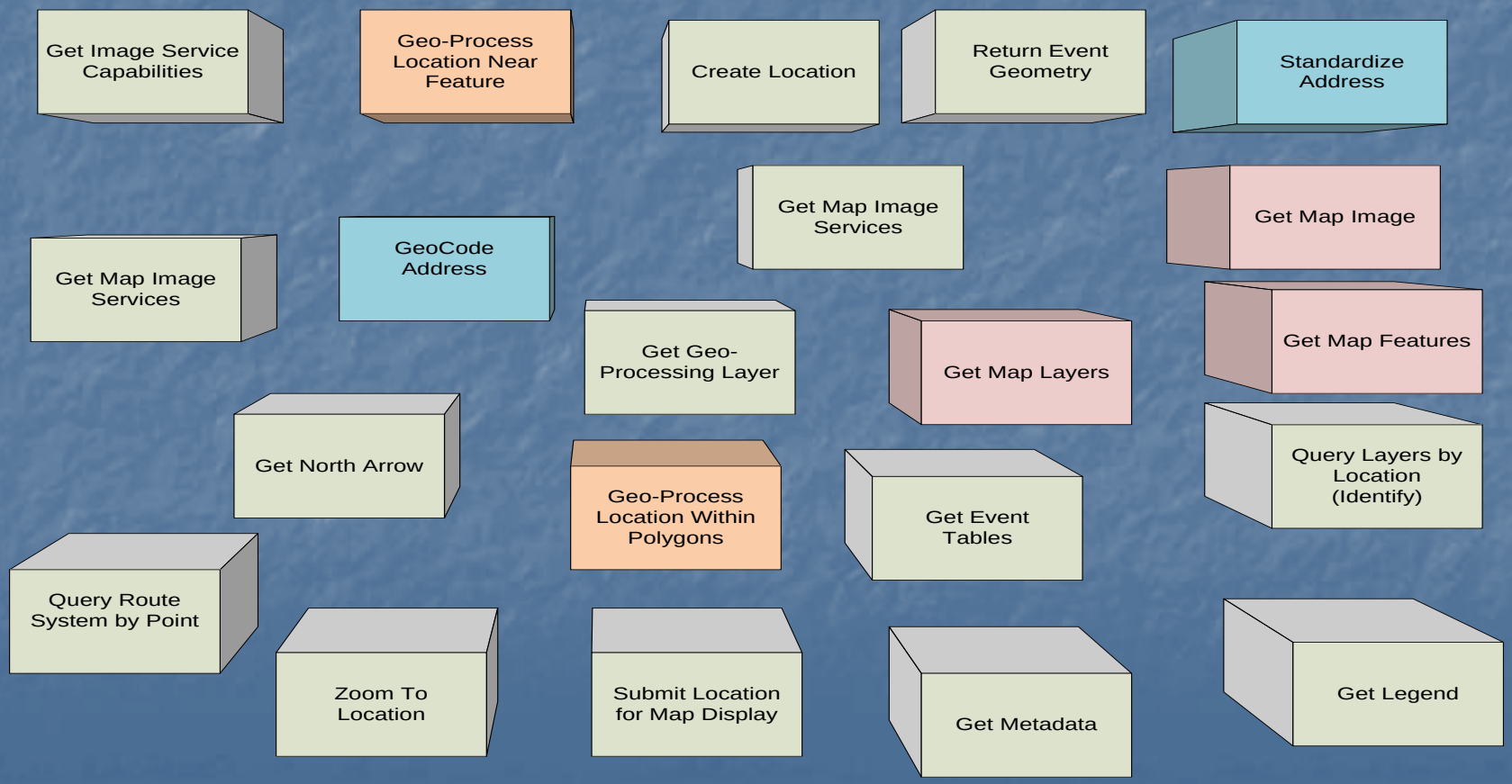
Location Verification & Editing Application



Geo-Processing Web Service

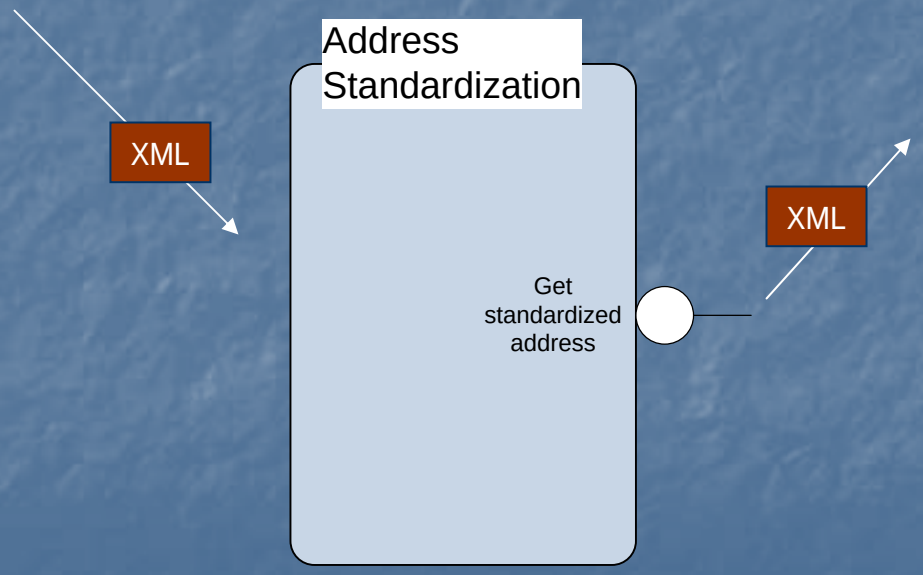


Develop Elemental GIS Web Services as Building Blocks



Address Standardization Service

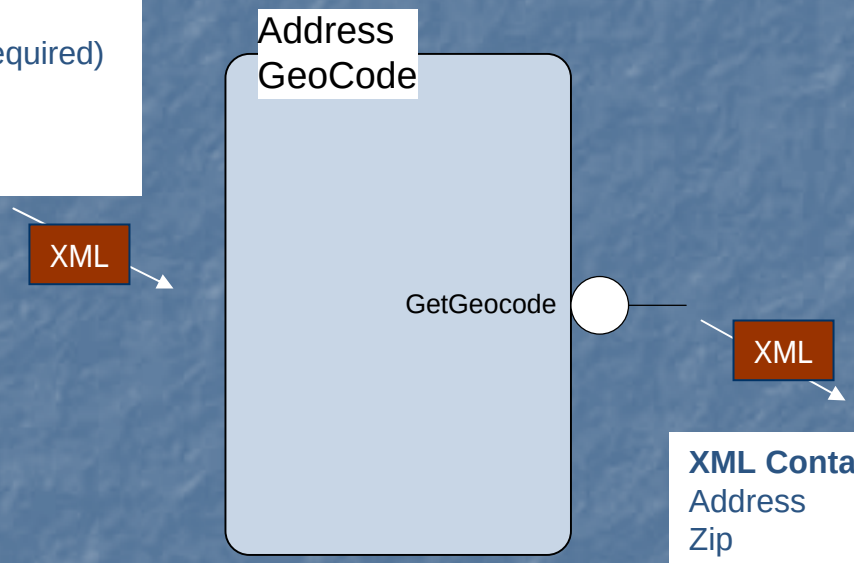
Input XML:
Address (PO Box, Street, Mailing, Military) required
Zip (5 digit) required
City (preferred)
State (preferred)
Zip4



XML containing:
Address
Zip
City
State
Zip4
Address prefix direction
Address house number
Address street
Address type
Address suffix direction
Address unit
Address unit description
Quality
Deliverable

Address Geo-Coding Service

Input XML:
Address Corrected or not (required)
Zip (required)
City
State



XML Containing:
Address
Zip
Reference Address Used
Accuracy (Close or Approximate Tolerances)
Score (Numeric match score)
Source
Latitude
Longitude
Parcel Number (if a parcel centroid match)

Map Image Service

(map reference for location capture & location display)

URL with parameters

OGC Web Map Service

Get Capabilities

GetMap

GetFeature Info

XML

URL

XML

Category 5: Polluted Waters/303(d) List

Rec	Listing ID	Name	Parameter	Medium	Listed in 98	Listed in 96	Waterbody ID
1	5862	Puget Sound	Dissolved oxygen	Water	Y	N	47122A9G0

Map Feature Service

(zoom-to, display selected feature location)

URL with parameters

OGC Web Feature Service

Get Capabilities

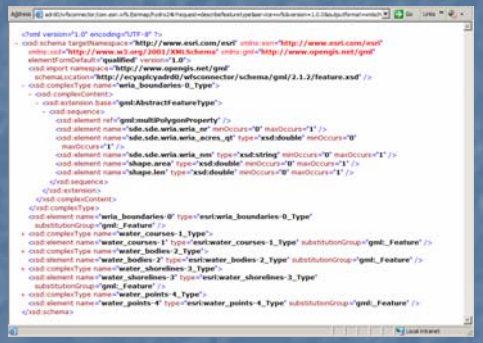
Describe Feature Type

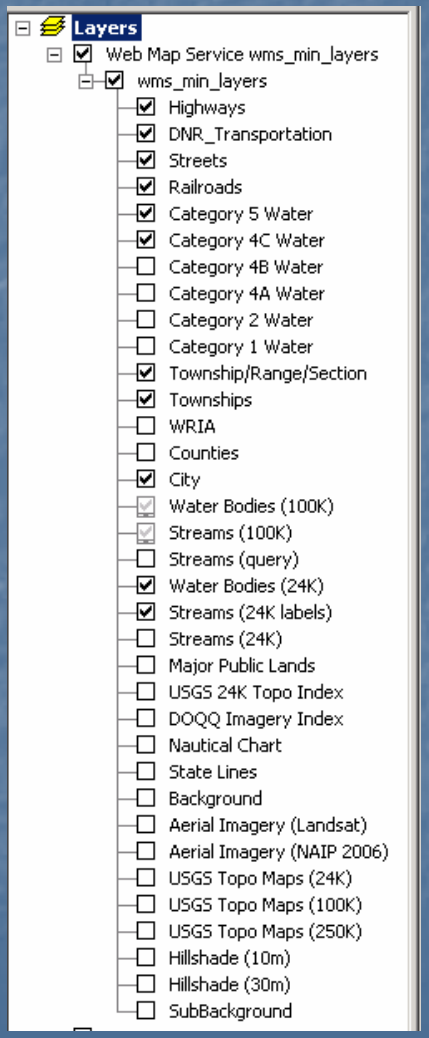
GetFeature

XML

XML Schema For Layer(s)

GML





Geo-Processing Service

SOAP Request with
GML feature
+ Layer List
+ Buffer Distance

Ecology
GeoProcessing
Service

Return
Intersected
Layer
Info

SOAP
Response
XML
with
Intersected
Layer
attributes
reported


```xml
<?xml version="1.0" encoding="UTF-8" ?>
- <GeoprocessingResults>
  - <Layer LayerName="City">
    - <IntersectedFeature>
        <CITY_NM>Auburn</CITY_NM>
      </IntersectedFeature>
    </Layer>
  - <Layer LayerName="County">
    - <IntersectedFeature>
        <COUNTY_NM>King</COUNTY_NM>
      </IntersectedFeature>
    </Layer>
  + <Layer LayerName="Tribal_Lands">
  + <Layer LayerName="Parcels2006">
  + <Layer LayerName="dnr_arc">
  - <Layer LayerName="HUC_6th_field">
    - <IntersectedFeature>
        <SUBWAT_NM>LOWER GREEN RIVER</SUBWAT_NM>
        <CATCHMENT>171100130399XX</CATCHMENT>
      </IntersectedFeature>
    - <IntersectedFeature>
        <SUBWAT_NM>WHITE RIVER/BOISE CREEK</SUBWAT_NM>
        <CATCHMENT>171100140204XX</CATCHMENT>
      </IntersectedFeature>
    </Layer>
  + <Layer LayerName="sections">
  - <Layer LayerName="wq_303d_2004">
    - <IntersectedFeature>
        <WB_GNIS_NM />
        <ECOLOGY_ID>LY34GL12.450</ECOLOGY_ID>
      </IntersectedFeature>
    </Layer>
  - <Layer LayerName="WRIA">
    - <IntersectedFeature>
        <WRIA_NR>9</WRIA_NR>
      </IntersectedFeature>
    - <IntersectedFeature>
        <WRIA_NR>10</WRIA_NR>
      </IntersectedFeature>
    </Layer>
  </GeoprocessingResults>
```

Demo of ePermitting

One-Stop E-Permitting Service - Microsoft Internet Explorer provided by Dept of Ecology

File Edit View Favorites Tools Help

Address http://qa.epermitting.org/site/alias__resourcecenter/welcome/9978/welcome.aspx

Access Washington™ Official State Government Web Site

One-Stop E-Permitting Service

Environmental Permitting Services

Today is Monday, October 15, 2007

Sign in | Site Map

Enter search text here Go!

Welcome | JARPA | Resources | Contact Us | Transportation Pilots

Text Size

Welcome

Introduction

In February 2006 Governor Gregoire signed a Regulatory Improvement Executive Order that said, "Citizens and businesses deserve state agencies that will be innovative and creative in simplifying their procedures for permits, licenses, regulatory compliance and all other business operations".

In response to this Executive Order, the Governor's Office of Regulatory Assistance along with several other state and federal regulatory agencies worked together to create this new one-stop permitting service.

Currently, this site offers information about the Joint Aquatic Resource Permit Application (JARPA) process as well as special services for Washington State Department of Transportation projects, including online application and review. We are working to add other permits to this site and to expand our special services to other applicants.

Let us know what you think

We want to make this site a valuable resource for everyone who might need an environmental permit. Send us your suggestions so we can update and add information to the site. If you have a general comment we want to hear that too.

Acknowledgements

Thank you to the federal and state agencies below for their participation in this project.

- U.S. Army Corps of Engineers
- Department of Ecology
- Department of Fish and Wildlife
- Department of Natural Resources

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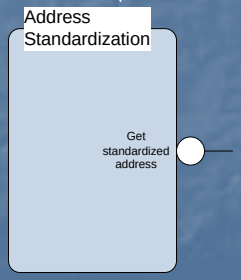
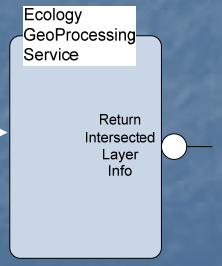
Internet

Start | Inbox - Microsoft Ou... | One-Stop E-Permitti... | Search Results | Microsoft PowerPoin... | One-Stop E-Permi... | 9:52 AM

What Just Happened?

Map Service





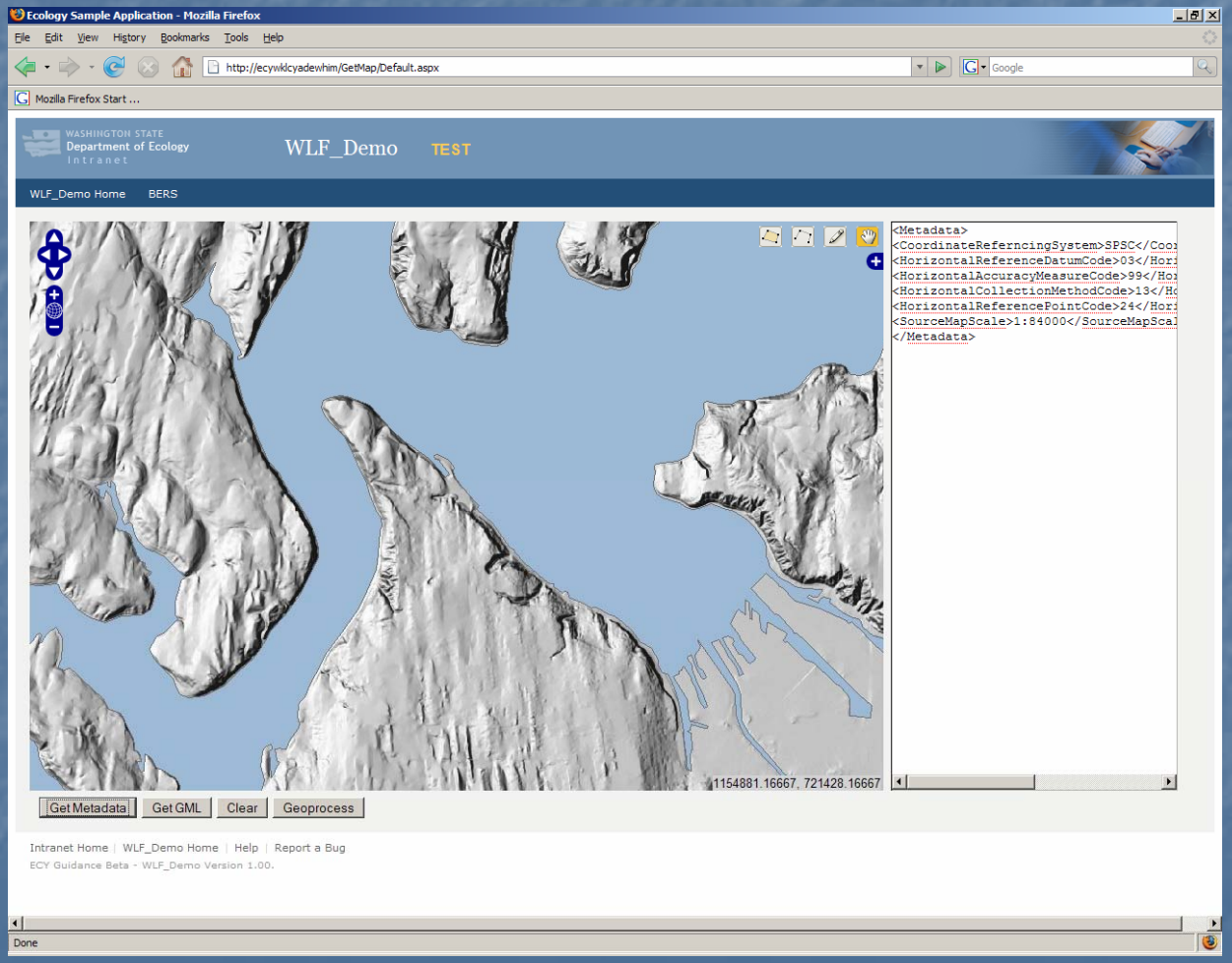
Address Standardization

GeoProcessing Service

Status:
Current Prototype Services

- Map Image Service (Ecology)
- Map Feature Service (Limited functions - Ecology)
- Address Standardization Service (WDOH)
- Address Geocoding Service (WDOH hosted at Ecology)
- Geo-Processing Service (Ecology)
- Proof-of-concept ePermitting client application

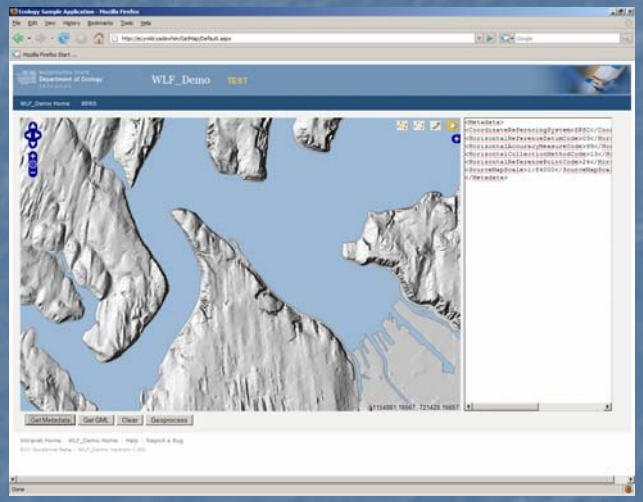
What's Next?


Ecology Sample Application - Mozilla Firefox
File Edit View History Bookmarks Tools Help
http://ecywldcyadewhim/GetMap/Default.aspx
Mozilla Firefox Start ...
WASHINGTON STATE
Department of Ecology
Intranet
WLF_Demo
TEST
WLF_Demo Home
BERS
<Metadata>
<CoordinateReferncingSystem>SPSC</Coo
<HorizontalReferenceDatumCode>03</Hori
<HorizontalAccuracyMeasureCode>99</Hor
<HorizontalCollectionMethodCode>13</Ho
<HorizontalReferencePointCode>24</Hori
<SourceMapScale>1:84000</SourceMapScal
</Metadata>
1154881.16667, 721428.16667
Get Metadata
Get GML
Clear
Geoprocess
Intranet Home | WLF_Demo Home | Help | Report a Bug
ECY Guidance Beta - WLF_Demo Version 1.00.
Done

Next Steps

- ArcGIS Server Extension
- Location Metadata
- Template Web Application
- Deploy Services to Production Servers
- ePermitting updated via JARPA PlainTalk
- Exchange Network Access via Node 2.0

Location Metadata



Get Metadata

Known → **Static**

- Coordinate Referencing System
- Horizontal Reference Datum Code
- Horizontal Collection Method Code

Known → **Dynamic**

- Source Map Scale (returned from map)
- Horizontal Accuracy Measure Code (derived from base data horizontal accuracy, zoom level, pixel size in real world measurement…needs to be determined)

Unknown → **User Provided**

- Other location specific information such as Location Name, etc

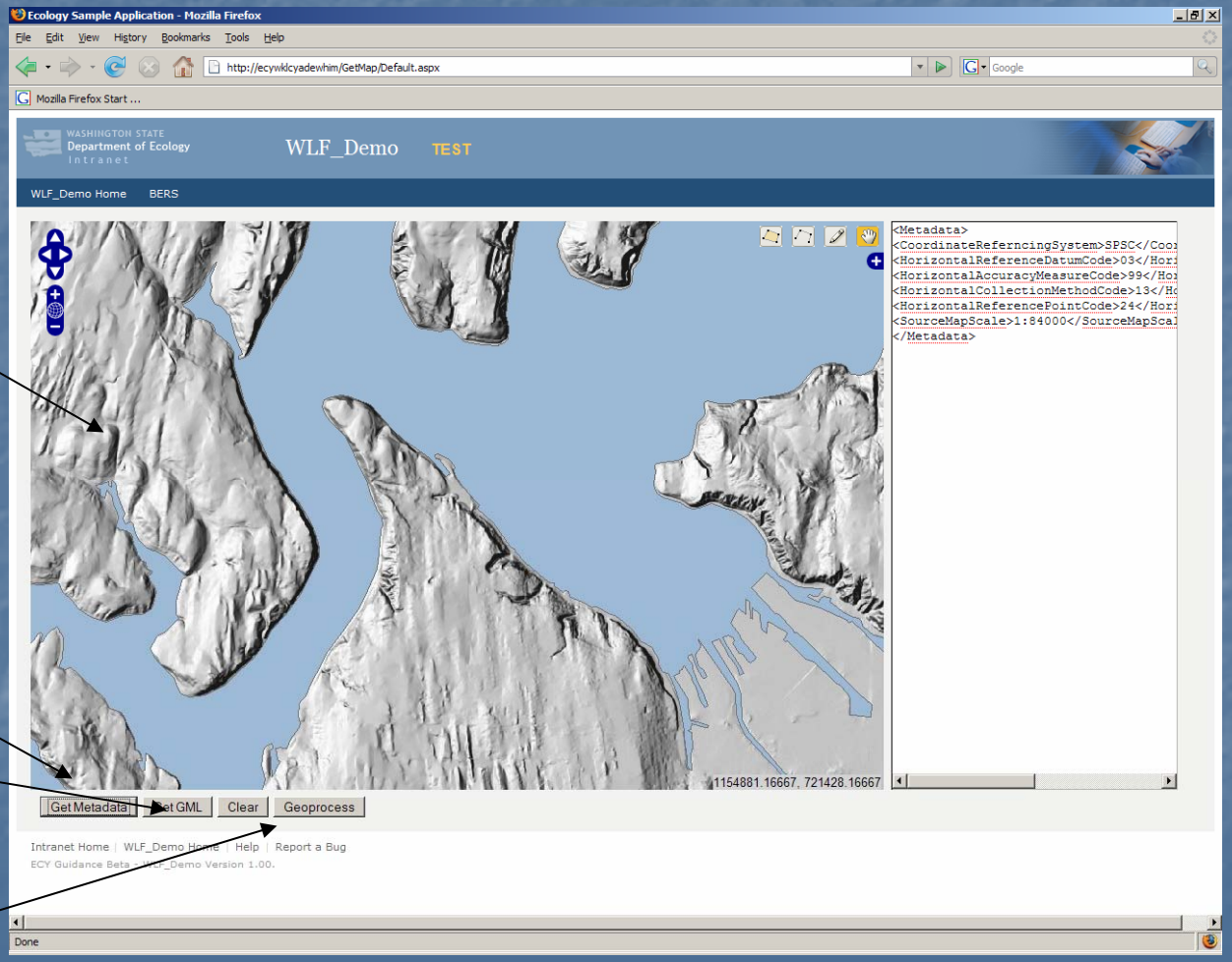
Template Application

Map Control

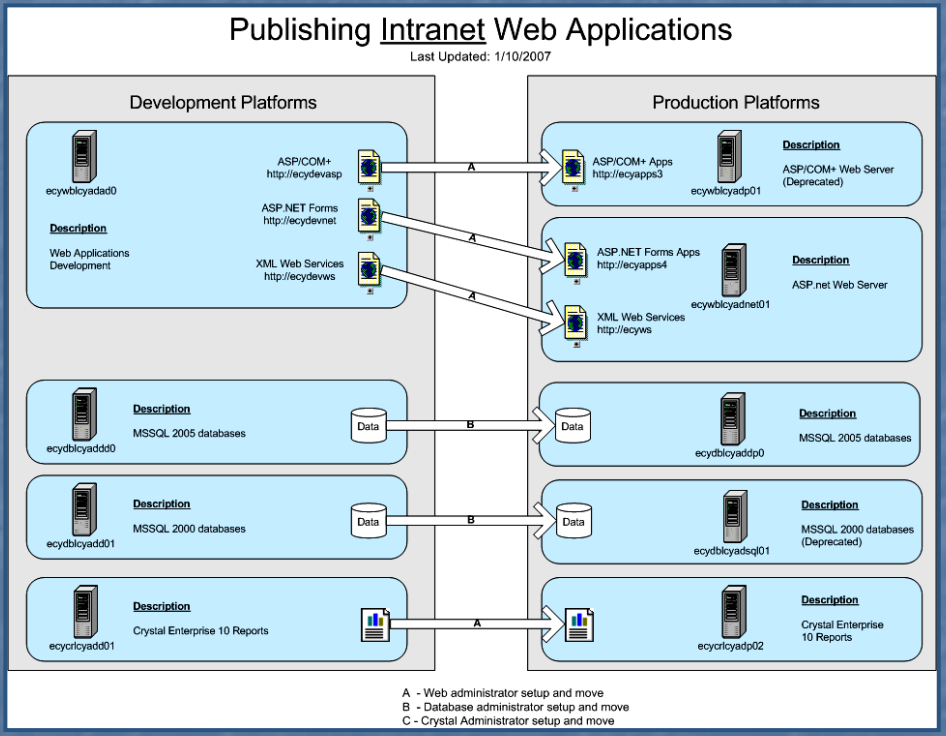
Get GML

Get Metadata

Get GeoProcessing Results



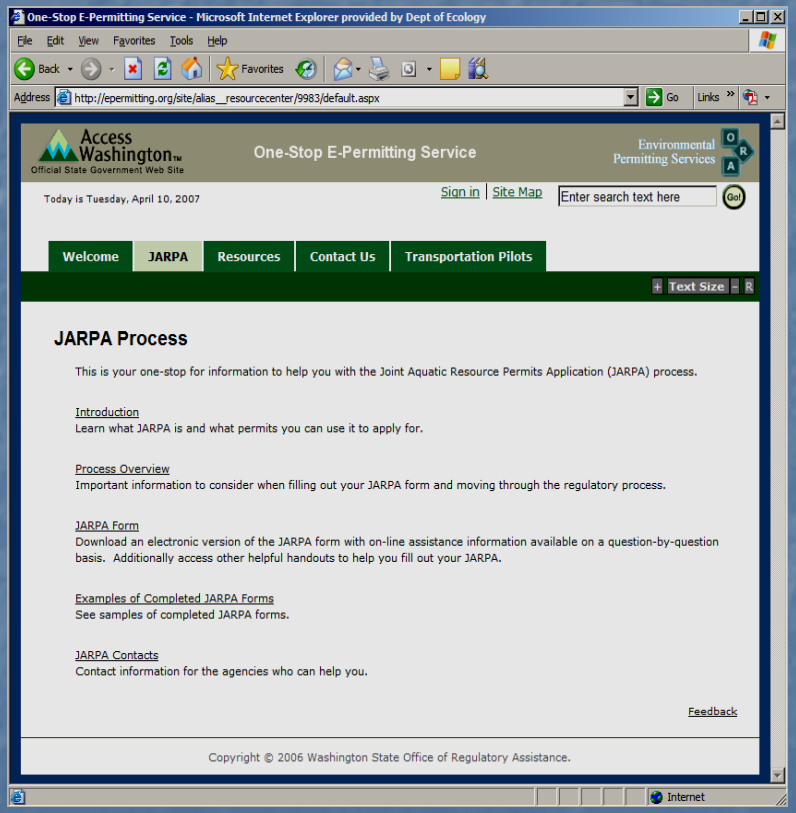
Deploy to Production Servers



ePermitting PlainTalk

PlainTalk Work
December 2007

PlainTalk Testing
January – May 2008



Deploy to Exchange Node 2.0

The Execute messages are defined by the following XML Schema.

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    <sequence>
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      <element name='interfaceName' type='xsd:string'/>
      <element name='methodName' type='xsd:string' />
      <element name='parameter' type='typens:ParameterType' minOccurs='0' maxOccurs='unbounded'/>
    </sequence>
  </complexType>
</element>
<element name="ExecuteResponse">
  <complexType>
    <sequence>
      <element name='transactionId' type='xsd:string' />
      <element name='status' type='typens:TransactionStatusCode' />
      <element name="results" type='typens:GenericXmlType'/>
    </sequence>
  </complexType>
</element>
```

Questions?