

Washington Location Finder Project

BITAC Presentation
6/27/2007

Background & History

- In 2005 the Office of Regulatory Assistance Sponsored a Project to Develop an Electronic-Permitting Web Site for the JARPA Application

AGENCY USE ONLY

Agency Reference #: _____ Date Received: _____
Created by: _____ (Print name, or agency)

JOINT AQUATIC RESOURCES PERMIT APPLICATION FORM (JARPA)
(For use in Washington State)
CLEAN WATER DELIVERABLES

Application for a Fish Habitat Enhancement Project per requirements of RCW 77.50.200. You must submit a copy of this completed JARPA application form and the Fish Habitat Enhancement JARPA Addendum to your local Government Planning Department and Washington Department of Fish & Wildlife (see Washington Habitat Design on the back side).
NOTE: LOCAL GOVERNMENTS - You must submit any comments on these projects to WDFW within 15 working days.

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

Local Government for shoreline Substantial Development Conditional Use Variance Use Permit Easement
 Washington Department of Fish and Wildlife for SPA (State 2 permits to WDFW Permit)
 Washington Department of Ecology for QW Water Quality Certification (or National Office Federal Permit Unit)
 Washington Department of Ecology for Federal Resources Use Publication Notification
 Corps of Engineers for: Section 404 Section 401 Section 10 permit
 Coast Guard for General Bridge Act Permit
 For Department of Transportation projects only: This project will be designed to meet standards of the most current Ecology/Department of Transportation Water Quality Implementation Agreement.

SECRETARY - Use for all permits covered by this application. Use one on all 200 multiple Section C (signature blocks) for all permit applications.
s. Sullivan
Port of Seattle, Attn: George Bimberg (Environmental Services) and Michael McLaughlin (Project Manager)

ADDRESS
Port of Seattle
P.O. Box 3209
Seattle, WA 98122

PHONE NUMBER	E-MAIL ADDRESS	FAX NUMBER	TITLE
(206) 728-3294	Membership@portseattle.org	(206) 728-3268	
(206) 728-2423	mclaughlin@portseattle.org	(206) 728-3260	

If an agent is acting for the applicants during the permit process, complete this. Use same agent signs Section C (signature block) for all permit applications.

AGENCY USE ONLY

AGENCY REFERENCE

AGENCY USE ONLY

JARPA, Revised 7/02 Contact for State of Washington Office of Permit Assistance for State Issues, 360-401-7037 or 800-917-0903



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

File Edit View Favorites Tools Help

Back Forward Stop Home

Address: http://permitting.org/site/bilas_resourcecenter/9903/default.aspx Go Links

Access Washington
Official State Government Web Site

One-Stop E-Permitting Service Environmental Permitting Services

Today is Tuesday, April 10, 2007 Sign In | Site Map Enter search text here

Welcome JARPA Resources Contact Us Transportation Pilots

Text Size

JARPA Process

This is your one-stop for information to help you with the Joint Aquatic Resource Permits Application (JARPA) process.

Introduction
Learn what JARPA is and what permits you can use it to apply for.

Process Overview
Important information to consider when filling out your JARPA form and moving through the regulatory process.

JARPA Form
Download an electronic version of the JARPA form with on-line assistance information available on a question-by-question basis. Additionally access other helpful handouts to help you fill out your JARPA.

Examples of Completed JARPA Forms
See samples of completed JARPA forms.

JARPA Contacts
Contact information for the agencies who can help you.

Feedback

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Joint Aquatic Resources Permit Application (JARPA)

Background & History continued

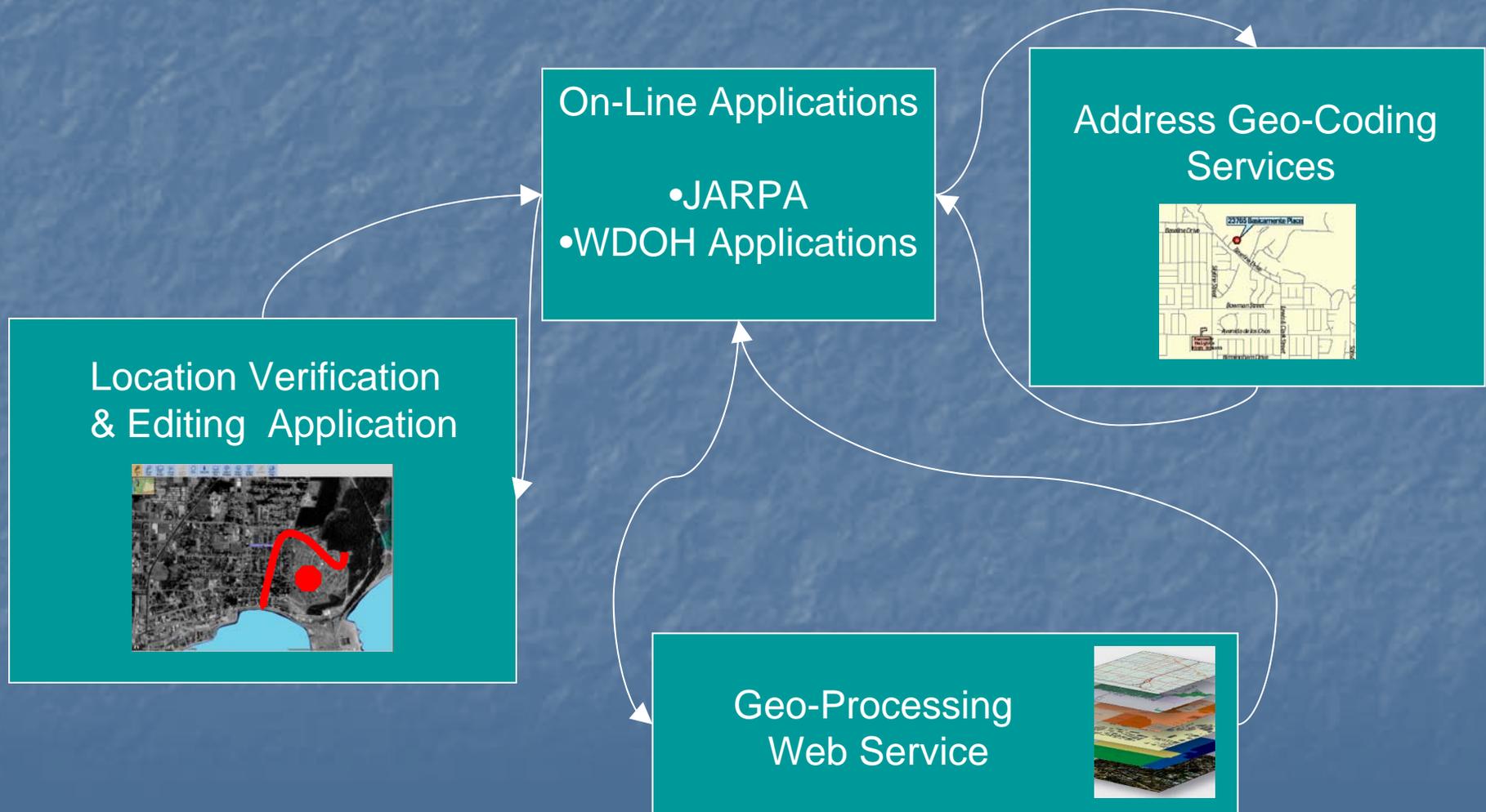
- JARPA E-Permitting Post Implementation Review
- Problem: Permit Applicants Often Struggle to Meet Data Entry Requirements Location-Based Information.
- Examples: Latitude-Longitude, Water Resource Inventory Area, Receiving Waters Impacted, Public Land Survey, DNR Water Type

Background & History continued

- Problem: Collection of Invalid Addresses Leads to Additional Costs
- Example: WDOH Electronic Death Registration System)

The screenshot shows a web browser window displaying the 'Demographic - Basic, Birth, Residence' form for a deceased individual named Muriel McGinness. The form is titled 'Demographic - Basic, Birth, Residence' and includes a 'Case ID' of 2338. The form is divided into several sections: 'STEPS' (Basic, Residence, Birth, Education, Origin, Race, Social Security, Place of Death, Cause of Death, Death Certificate, Return To Active Cases, Comments, Check Errors, Save), '1. Legal Name' (First: Muriel, Middle: Keith, Last: McGinness), '2. *Death Date' (Month: 01, Day: 28, Year: 2005), '3. *Sex (M/F)' (M), '4a. Age' (73 Years), '5. *County of Death' (Benton), '6. SSN' (SSN Modifier: P, Status: Re-Verify), '7. Birth' (Month: 12, Day: 29, Year: 1931), '8a. Birth City' (Fairview), '8b. Birth State or Prov.' (Virginia), '8c. Birth Country' (United States), '9. Residence' (13a. Street Address: 202 W Laird Ave, 13b. City or Town: Hermiston, 13c. County: Umatilla), '10. State or Prov.' (Oregon), '11. Zip Code' (97838), '12. Was Decedent ever in U.S. Armed Forces?' (Yes), '13. Country' (United States), and '14. Estimated length of time at residence' (Units: Years). The form includes various dropdown menus, text input fields, and checkboxes. A 'Next' button is visible at the bottom right of the form.

Solution: Location Finder Services



Project Objectives

- Increase the Accuracy of Location-Based Information Submitted for Environmental Review and Agency Decision Making

Project Objectives continued

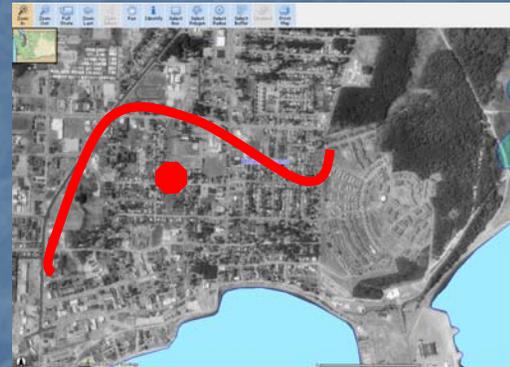
- Provide Ease-of-Use Enhancements to Existing and Planned On-Line Permitting & Reporting Applications

Project Objectives continued

- Provide Standardized, Repeatable Methods for Assigning Place-Based Information

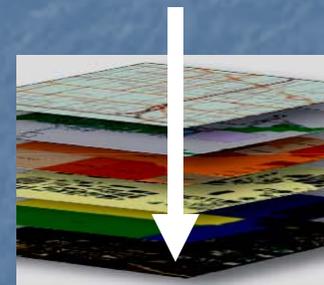
Scope

- Develop an Interactive Map-Based Location Editor Which Allows a User to Delineate a Location



Scope continued

- Develop Geo-Processing Services Which Can Intersect Multiple GIS Layers and Return Information About a Geographic Location



Scope continued

- Develop an Address Standardization Service That Standardizes the Input Address to the USPS Format, Corrects Misspellings, and Verifies City & Zip Code Information



Scope continued

- Develop an Address Geo-Coding Service Which Returns X-Y Coordinates (Latitude-Longitude) for a Given Address.



Scope continued

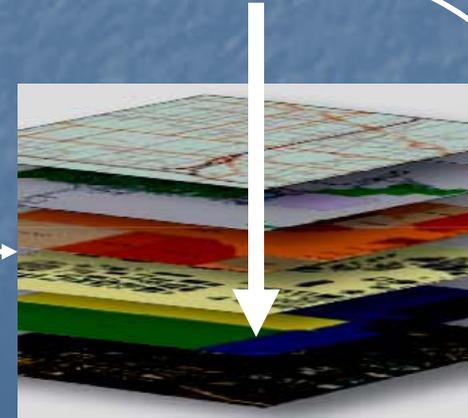
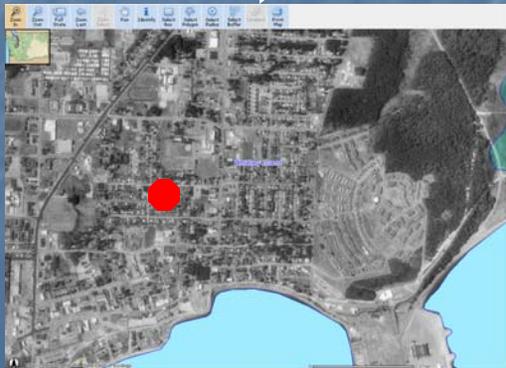
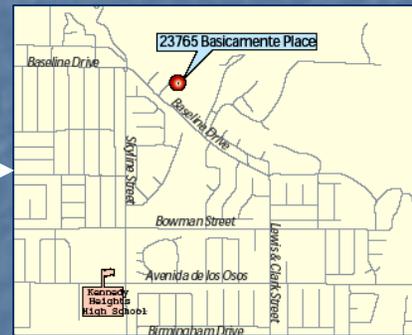
Interface These Services With:

- JARPA-ePermitting Application
- Public Health Issue Management System
- Electronic Death Registration System.

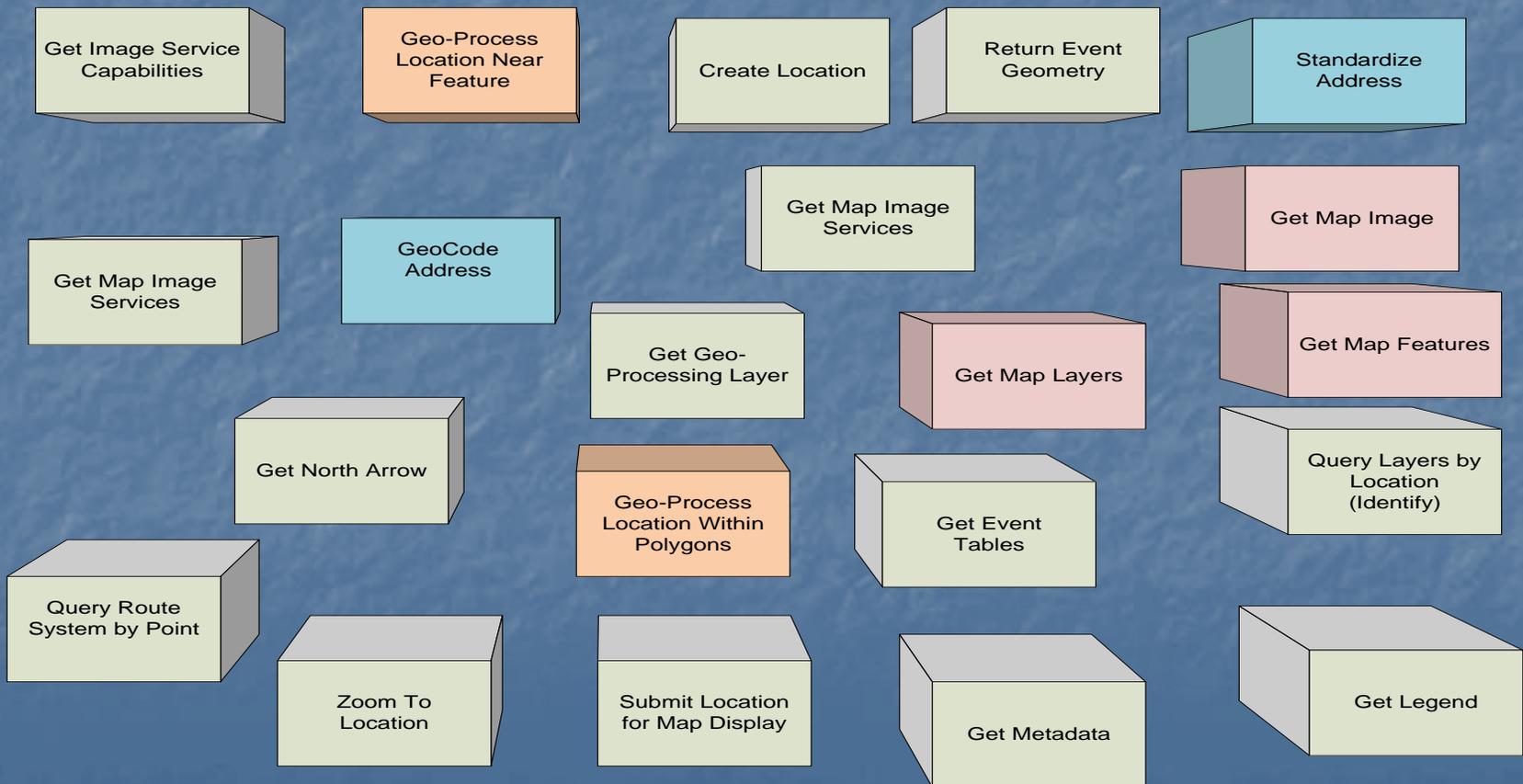
Interrelated Services

Standardized
Address

Example:
101 Israel Rd SE, 98501

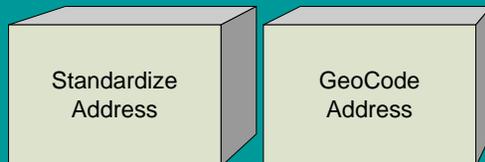


Develop Elemental GIS Web Services as Building Blocks

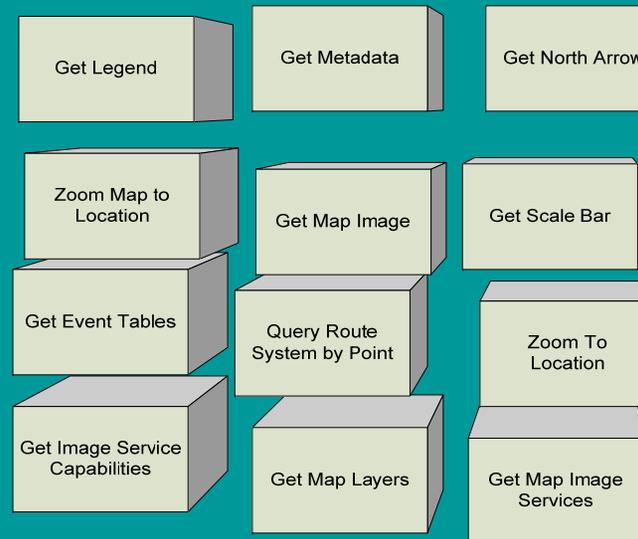


Services Are Loosely Connected and Can be Used to Meet Specific Needs

Address Services



Map Services



Geo-Process
Location Near
Feature

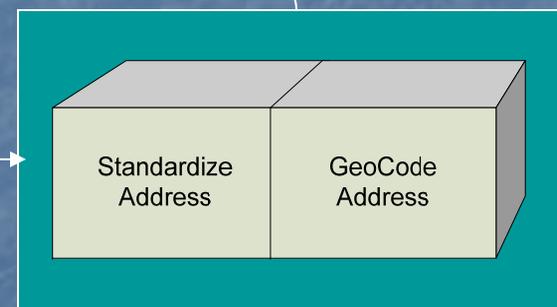
Geo-Process
Location Within
Polygons

Get Geo-
Processing Layers

Geo-Processing Services

Reporting Application Requiring Address Services

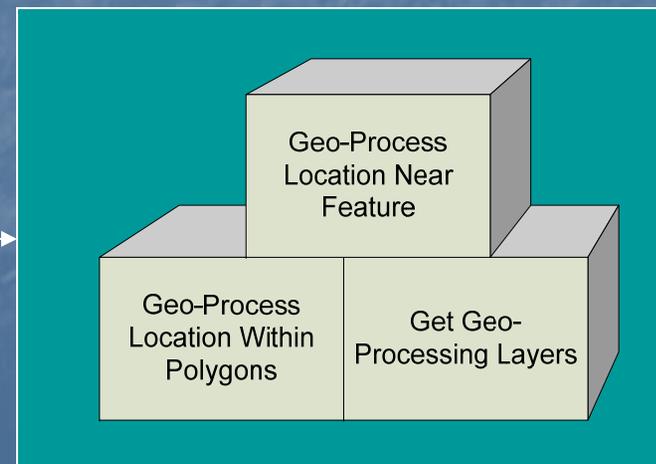
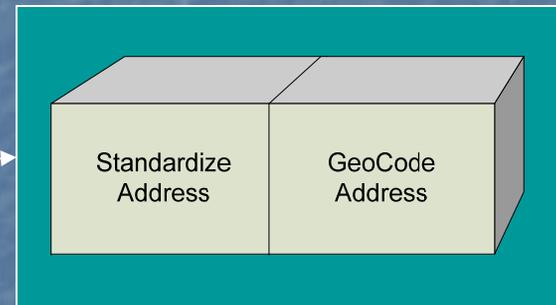
The screenshot shows a web browser window displaying a form titled "Demographic - Basic, Birth, Residence" for a person named McGinness, Maribel. The form is divided into several sections with "Click for Help" links. The "Legal Name" section includes fields for First Name (Maribel), Middle Name (Joan), and Last Name (McGinness). The "Death Date" section has dropdowns for Month (01), Day (28), and Year (2008). The "County of Death" is set to Benton. The "Sex" is listed as M. The "Residence" section includes fields for Street Address (502 W. Lind Ave.), City or Town (Hermiston), and State (Oregon). The "Country" is set to United States. The form also includes fields for SSN, birth date, and estimated length of time at residence.



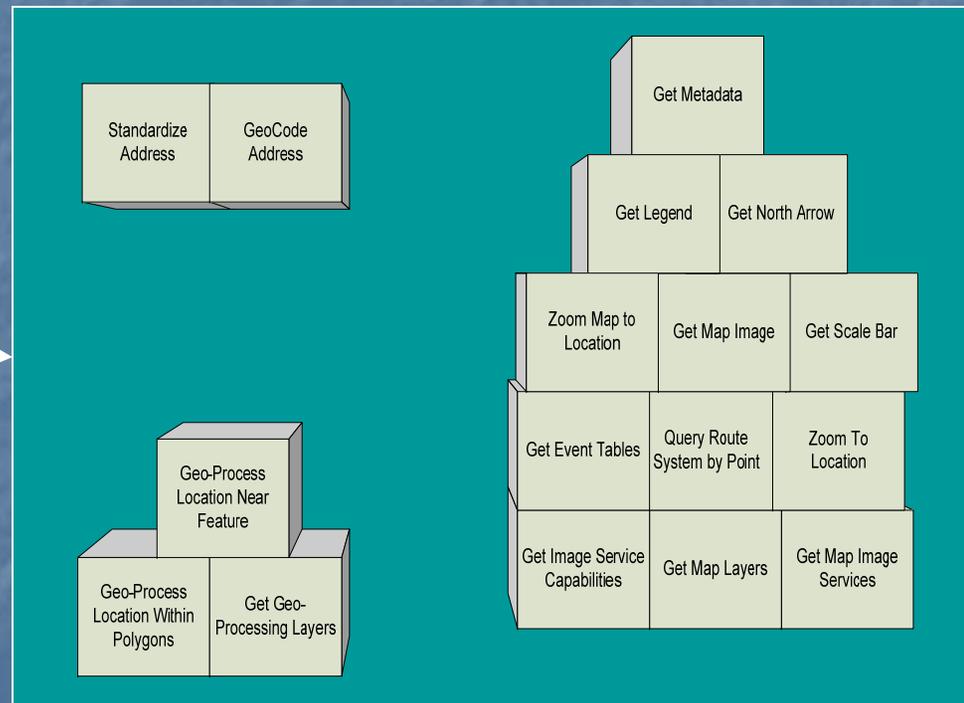
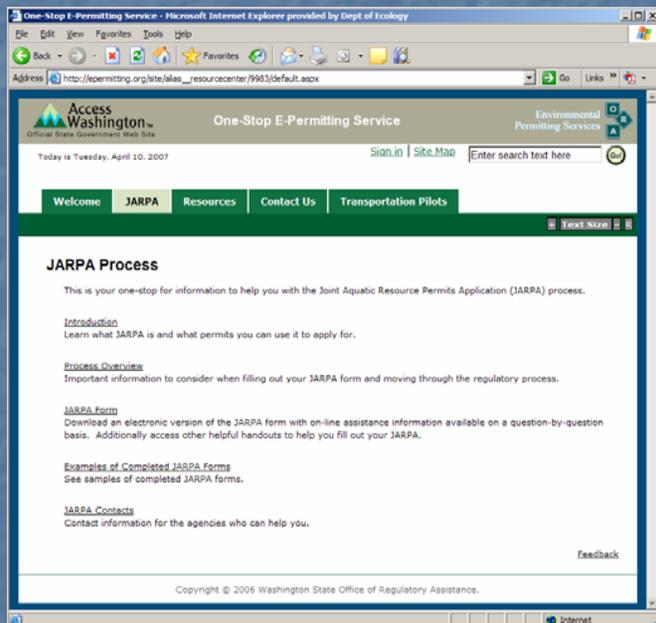
Reporting Application Requiring Address Services & Geo-Processing

Demographic - Basic, Birth, Residence [McGinness, Malet] Local File # Case ID 2338

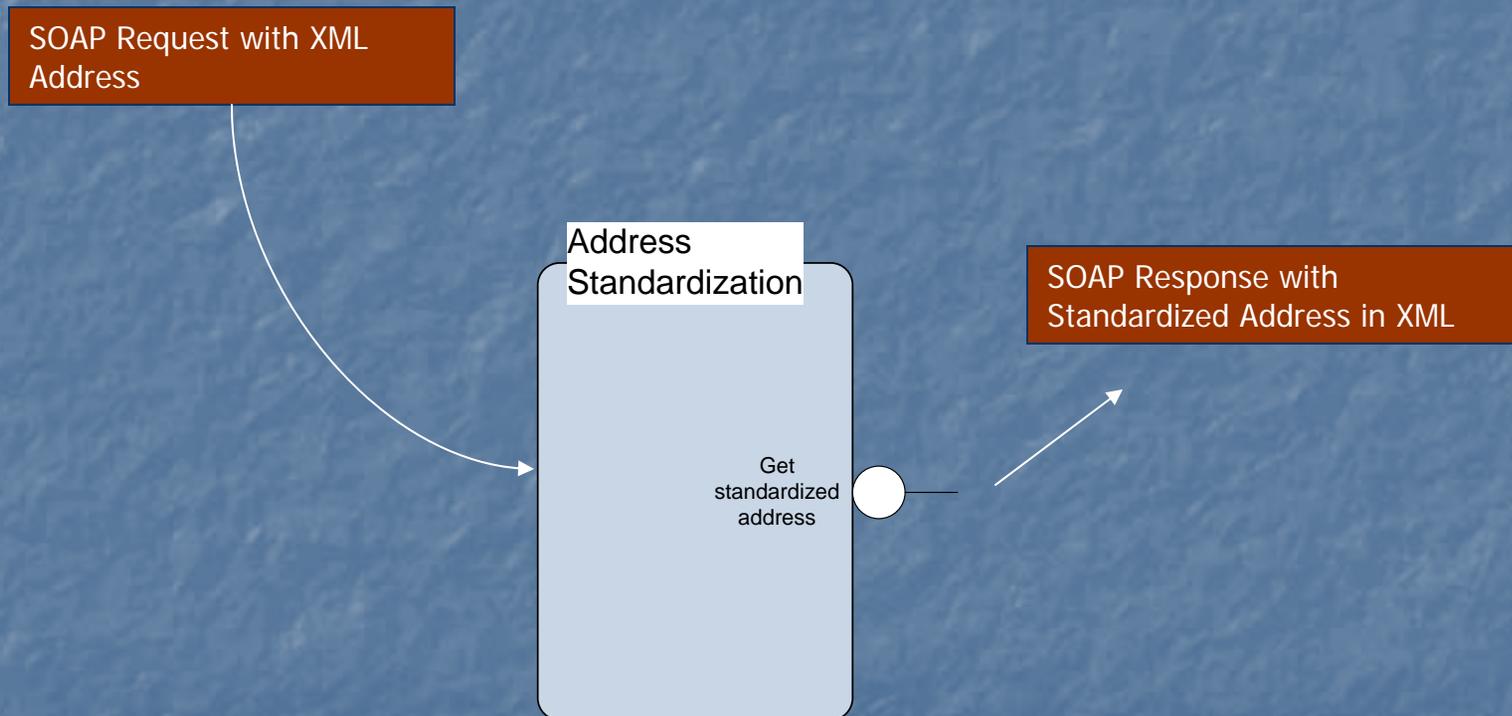
1. Legal Name: [Click for Help] [Click To Enter Any ANY] Death Date Modifier: First: [Malet] 2. "Death Date": Month: [01] Day: [28] Year: [2009] A Middle: [Malet] 6. "County of Death": [Benton] Last: [McGinness] 3. "Sex (M/F)": [M] 7. Birth: Month: [01] Day: [29] Year: [1931] Unk 4a Age: [73] Years 4b Under 1 Year: [] Months [] Days Unk Age: 4c Under 1 Day: [] Hours [] Minutes 5. SSN: [] - [] - [] SSN Modifier: [P] SSN Verify Count: [] Status: [] Verify: [] 12. Was Decedent ever in U.S. Armed Forces? [Yes] [Click for Help] 8a Birth City: [Fairview] 8b Birth Country: [] 9a Birth State or Prov: [Virginia] 9b Birth Country: [United States] Residence: [Click for Help] (e.g. 524 DE S St.) (Exclude Apt. No.) 13a. Street Address: [572 W Laird Ave] 13b. City or Town: [Pernamout] 13c. County: [Sonoma] 13d. State or Prov: [Oregon] 13e. Zip Code: [97030] Zip Plus 4: [] Unk 13f. Country: [United States] 13g. Inside City Limit?: [Please Choose] 13h. Please Choose: [] Yes [] No [] Unk 14. Estimated length of time at residence: [] Units: [] Years



Permitting Application Requiring Many Services



WaDOH Address Standardization & Correction



Test Client

Address Correction Web Service

Address Correction Web Service Desktop Client

Address Request Form

Enter the street address: 11820 northup way, suite e300

Enter the city: bellevue

Enter the state:

Enter the zip code:

Submit Address Request

Corrected Address

Street address: 11820 Northup Way

Number: 11820 Street Name: Northup

Unit: E300 Unit Type: Ste

City: Bellevue

County: King

State: WA

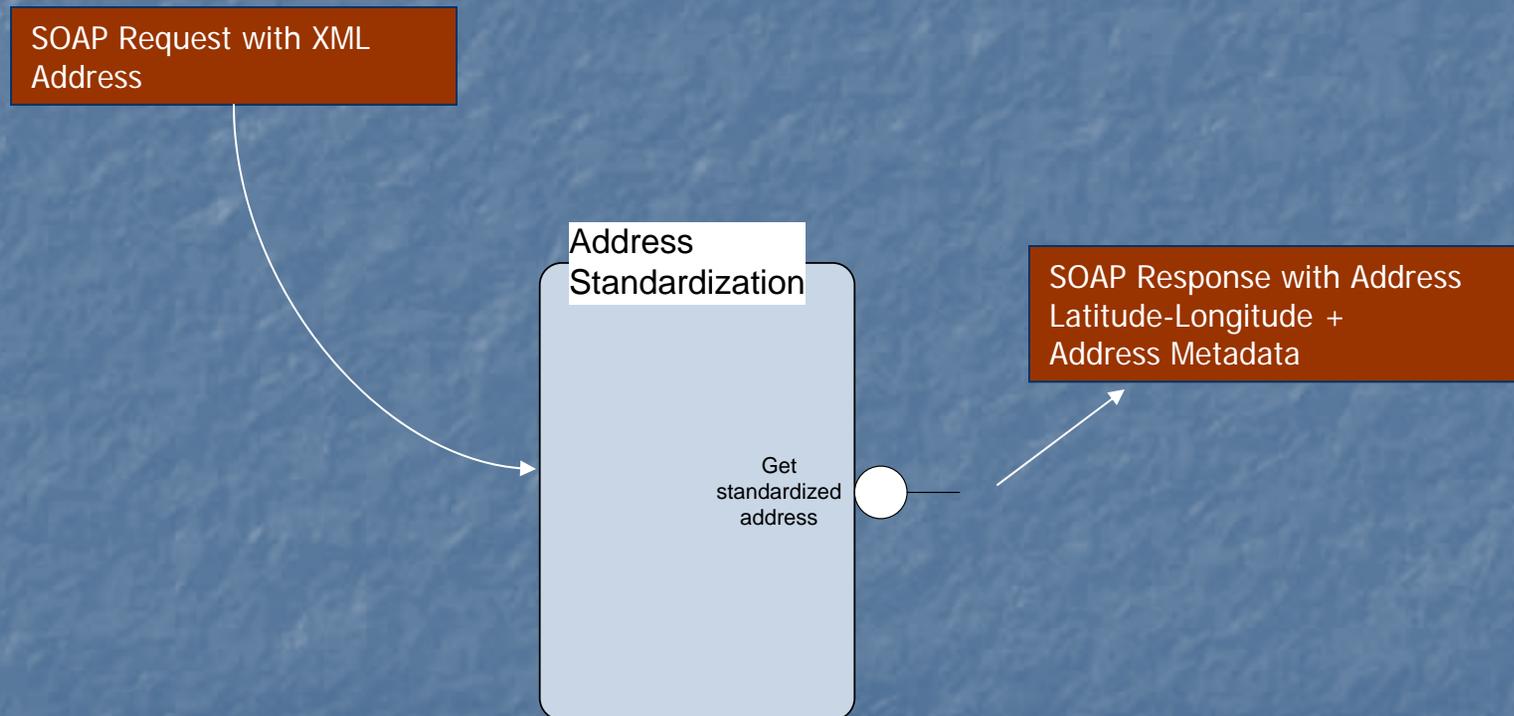
Zip code: 98005 - 1968

PreDirectional: PreType:

PostDirectional:

PostSuffix: Way

WaDOH Address Geo-Coding Service



Open Geospatial Consortium

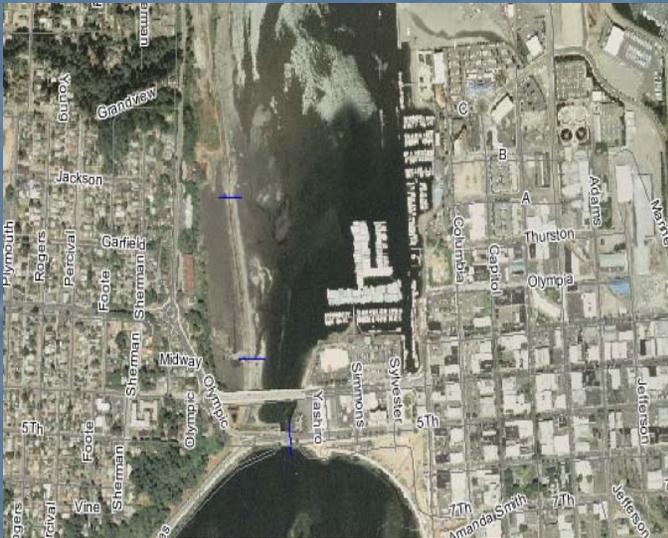
Map Services

- Open Standards
- Open Source Software Available (both client and server)
- Some basic functions supported by ESRI Software
- Geographic Markup Language (GML) standard XML schemas for exchange of spatial geometry

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

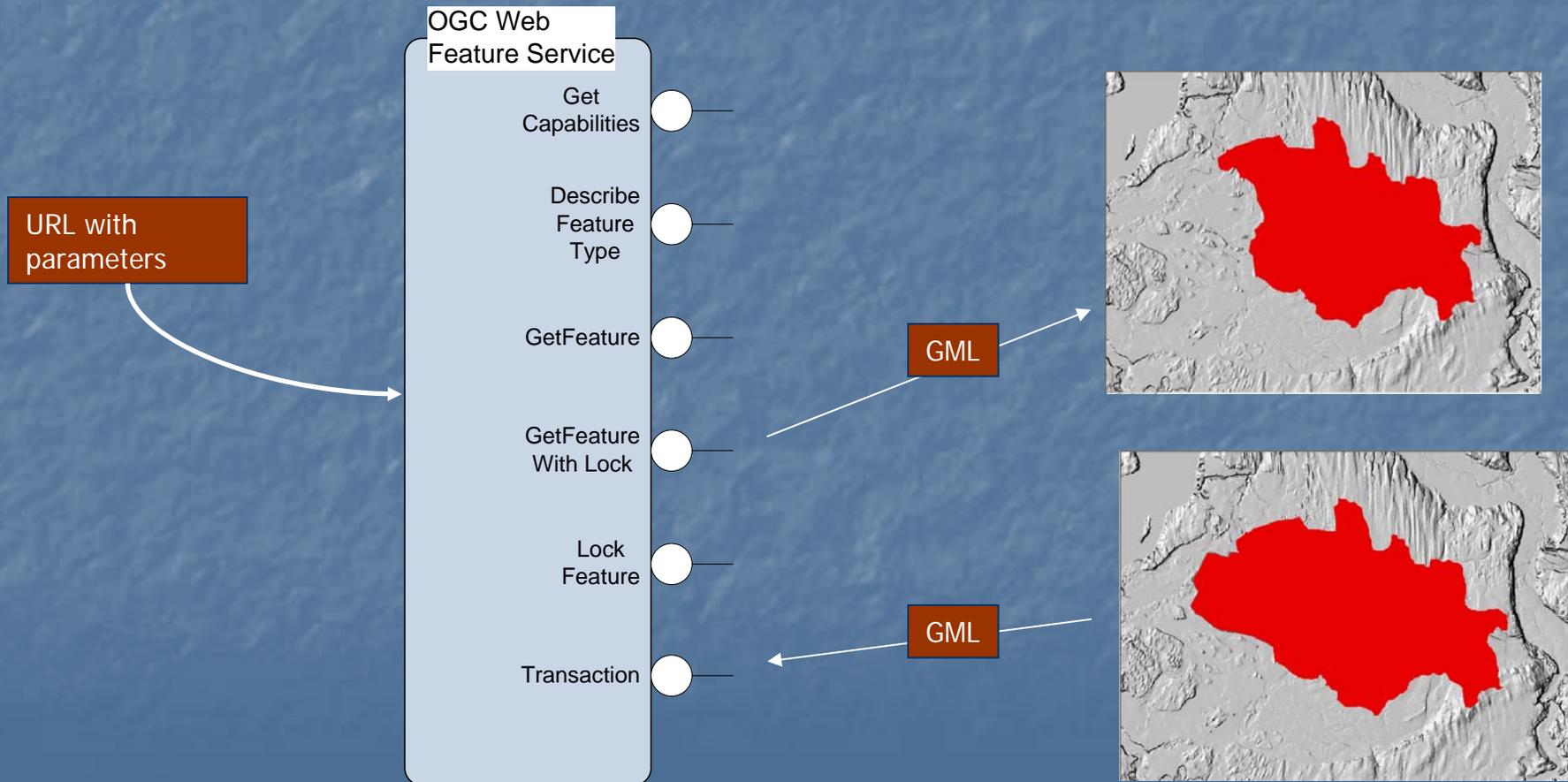
Rec	Listing ID	Name	Parameter	Medium	Listed in 98	Listed in 96	Waterbody ID
1	5862	Puget Sound	Dissolved oxygen	Water	Y	N	47122A9G0

Layers

- Web Map Service wms_min_layers
 - wms_min_layers
 - Highways
 - DNR_Transportation
 - Streets
 - Railroads
 - Category 5 Water
 - Category 4C Water
 - Category 4B Water
 - Category 4A Water
 - Category 2 Water
 - Category 1 Water
 - Township/Range/Section
 - Townships
 - WRIA
 - Counties
 - City
 - Water Bodies (100K)
 - Streams (100K)
 - Streams (query)
 - Water Bodies (24K)
 - Streams (24K labels)
 - Streams (24K)
 - Major Public Lands
 - USGS 24K Topo Index
 - DOQQ Imagery Index
 - Nautical Chart
 - State Lines
 - Background
 - Aerial Imagery (Landsat)
 - Aerial Imagery (NAIP 2006)
 - USGS Topo Maps (24K)
 - USGS Topo Maps (100K)
 - USGS Topo Maps (250K)
 - Hillshade (10m)
 - Hillshade (30m)
 - SubBackground

Map Feature Service – Transaction *future*

(zoom-to, display selected feature location, CRUD Features)



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 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>
```

Status:

Current Prototype Services

- Map Image Service
- Map Feature Service (attribute filter not available)
- Address Standardization Service
- Address Geocoding Service
- Geo-Processing Service
- Proof-of-concept ePermitting client application (provides user interface to the above services)

Demo?



Official State Government Web Site

One-Stop E-Permitting Service

Environmental Permitting Services

Today is Tuesday, June 26, 2007

[Sign in](#) | [Site Map](#)

[Welcome](#) | [JARPA](#) | [Resources](#) | [Contact Us](#) | [Transportation Pilots](#)

+ Text Size - R

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.

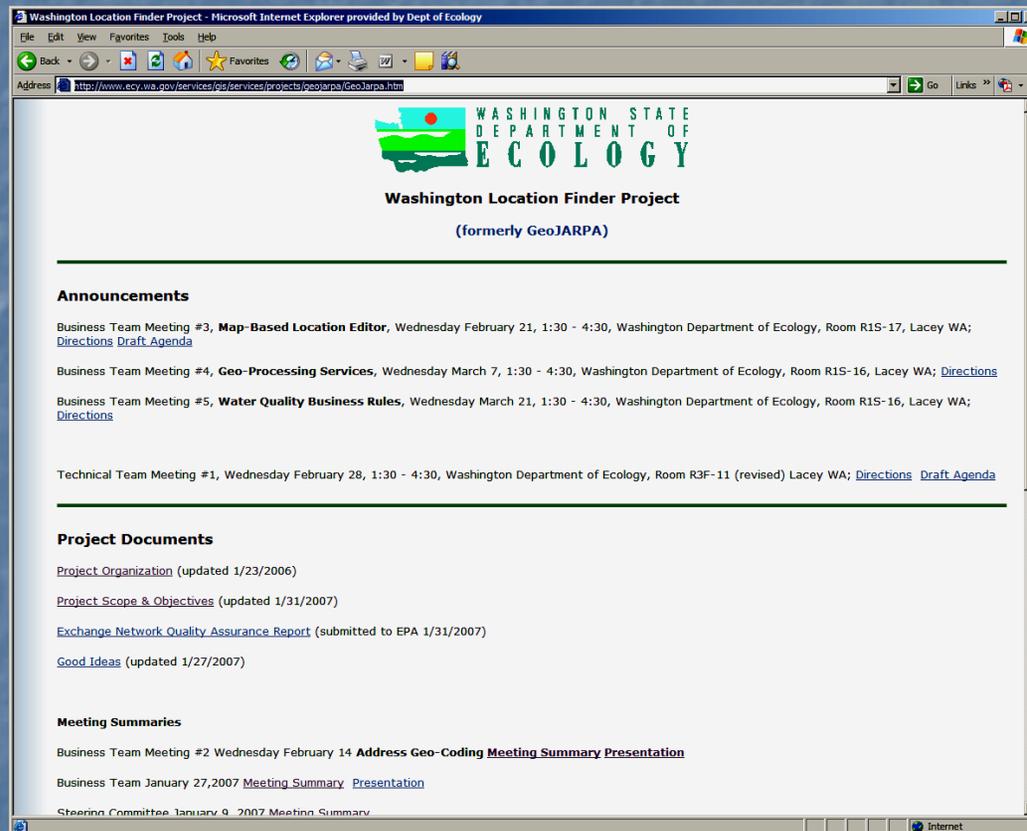
- U.S. Army Corps of Engineers
- Department of Ecology
- Department of Fish and Wildlife
- Department of Natural Resources

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Planned Availability

- Map Services – October 2007
- Address Standardization Service – Summer 2007
- Address Geocoding Service – October 2007
- Geo-Processing Service – October 2007

Project Documentation Site



<http://www.ecy.wa.gov/services/gis/projects/projects/geojarpa/GeoJarpa.htm>

Questions?