Emissions Inventory Graphic User Interface for Point Sources

Idaho Department of Environmental Quality

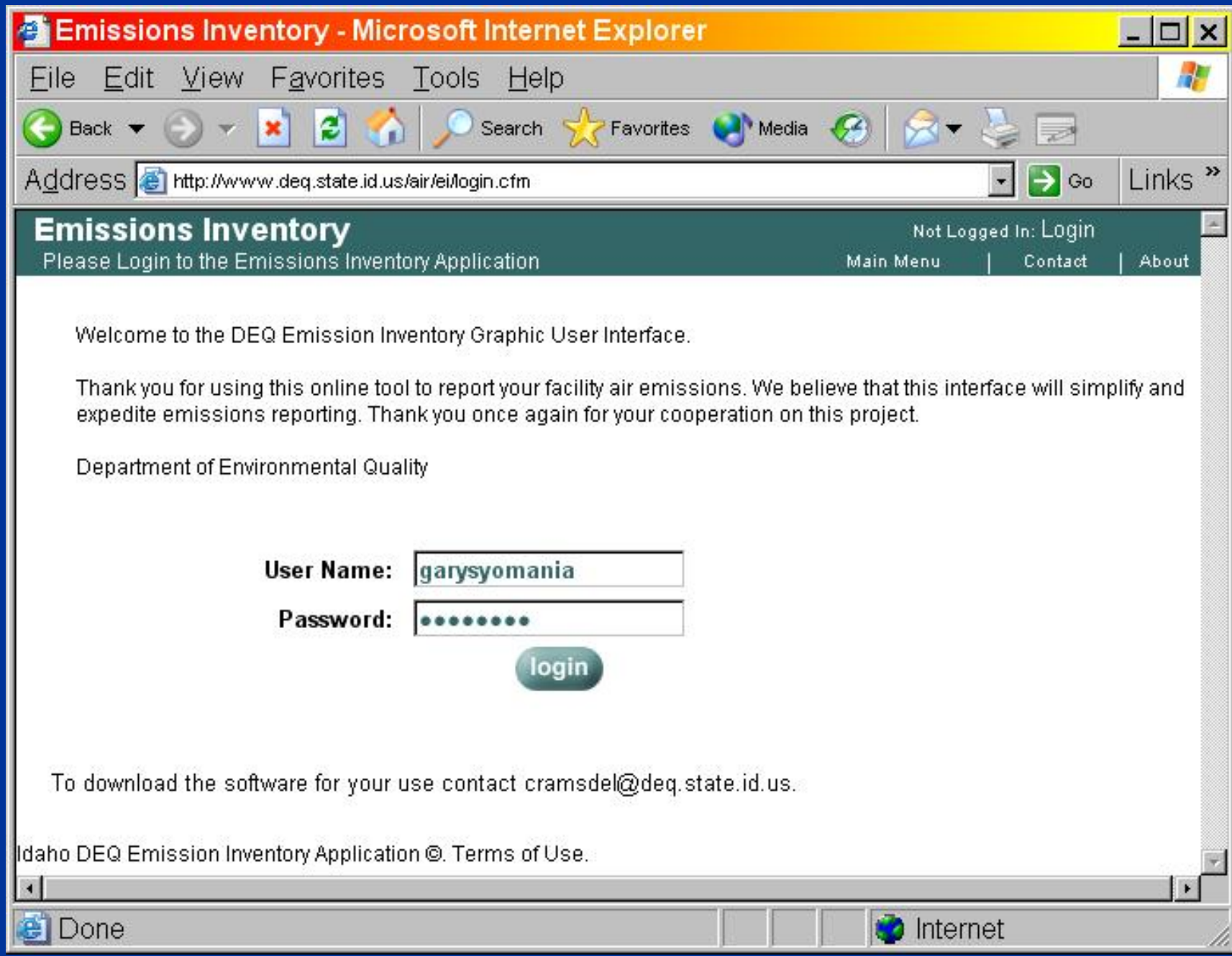
Christopher P. Ramsdell

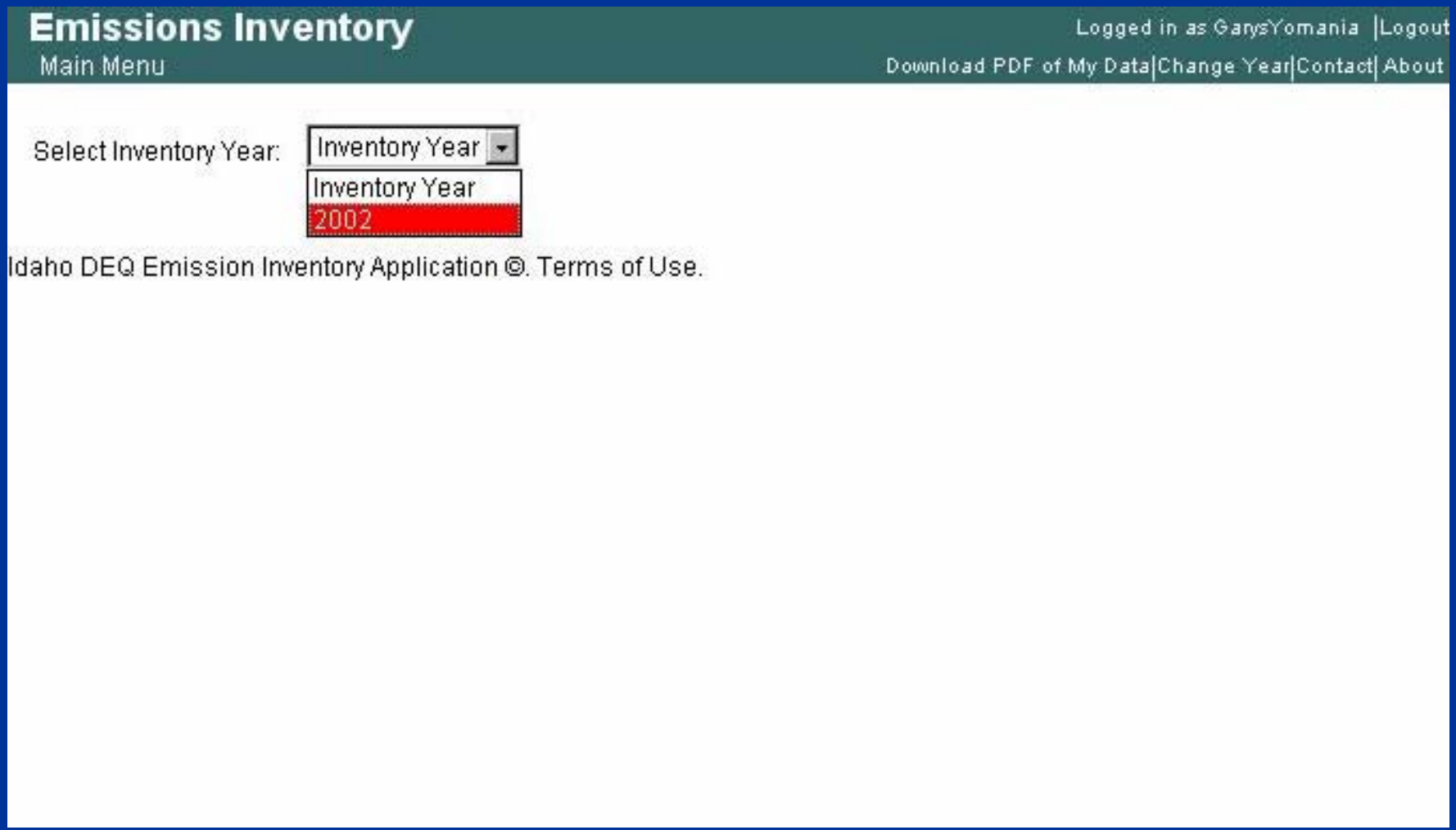
Why a Web-based Application?

- ★ To gather all 44 point source data elements
- ★ Better organize and speed data collection
- ★ Eliminate computer compatibility issues
- ★ Ease facility data submission
- ★ Limit amount of QA/QC needed
- ★ Decrease facility and DEQ work hours
- ★ Clean egg off face from 1999 effort

Application Specifics

- ★ **Written in HTML with a bit of Java Script for the main menu tree**
- ★ **Runs on our server with ColdFusion**
- ★ **Attached to a SQL data base and will be upgraded to Oracle**
- ★ **Is copyrighted with a GPL and is currently available to other agencies for free (some code changes will be needed on your end)**


Emissions Inventory - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back
Search
Favorites
Media
Address
http://www.deq.state.id.us/air/ei/login.cfm
Go
Links
Emissions Inventory
Not Logged In: Login
Please Login to the Emissions Inventory Application
Main Menu | Contact | About
Welcome to the DEQ Emission Inventory Graphic User Interface.
Thank you for using this online tool to report your facility air emissions. We believe that this interface will simplify and expedite emissions reporting. Thank you once again for your cooperation on this project.
Department of Environmental Quality
User Name:
garysyomania
Password:
login
To download the software for your use contact cramsdel@deq.state.id.us.
Idaho DEQ Emission Inventory Application ©. Terms of Use.
Done
Internet


Emissions Inventory
Logged in as GarysYomania |Logout
Main Menu
Download PDF of My Data|Change Year|Contact|About
Select Inventory Year:
Inventory Year
Inventory Year
2002
Idaho DEQ Emission Inventory Application ©. Terms of Use.

Emissions Inventory

Main Menu

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Emissions Inventory: 2002

- Facility Info
  - Company Data ✘

submit

Links:

Online Animated Tutorial
Online Animated Tutorial Two: Adding/Deleting Stacks & Points
Emission Inventory Graphic User Interface User's Manual
A summary of the Consolidated Emissions Reporting Rule(CERR)
The final CERR
CERR activation of point source reporting requirements for PM2.5 and NH3
Fugitive Emissions Source List
EPA drop down list codes
Source Classification Codes (SCC)
Download the Emissions Inventory Application

Emissions Inventory

Please enter Facility Information

DEQ Facility ID: **06900666** SIC Primary: **5092** NAICS Primary: **42392**
Facility Name: **Garys Yomania** Inventory Year: **2002**

Physical Address Information

Street Address: 123 Yo-Yo Drive
City: Boise State: IDAHO ZIP Code: 83702

Mailing Address Information

Company Name: Garys Yomania
Mailing Address: P.O. Box 321
City: Boise State: IDAHO ZIP Code: 83702

Exact Physical Location

Facility Category: AREA (HAP emitting facility)
Site Location: 123 Yo-Yo Drive Site County: Ada County
UTM Easting: 580.622 UTM Northing: 4799.534 UTM Zone: 11

Contact Information

Name: Ned Gunderson Phone (office): 2085551230
Email: ngunders@yomania.org Other Phone: 2085550120
Fax Number: 2085550123

Site Description

Manufacter yo-yo parts and assemble for wholesale and retail sale.

save submit

Emissions Inventory

Main Menu

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Emissions Inventory: 2002

- Facility Info
- Stack Data
  - Dragonfly (010)
  - Element X& (020)
  - Freehand (030)
  - Roadster (040)
  - Samurai (050)
  - add new stack
  - delete stack
- Point Data / Emission Data (Point - Stack)
  - DF 1 - Dragonfly (010)
  - EX 2 - Element X& (020)
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  - SM 1 - Samurai (050)
  - add new point
  - delete point

submit

Emissions Inventory

Please enter Stack Information

Current Stack: **Dragonfly**
DEQ Facility ID: **06900666**
Inventory Year: **2002**
AIRS Stack ID: **010**

Facility Stack ID: Dragonfly
Stack Description: Stack for the Dragonfly injection mold
UTM East: 432.999 UTM North: 3223.333 UTM Zone: 12

Horizontal Collection Method:
The geographic coordinate determination method based on interpolation-map.
Horizontal Accuracy Measure: 10
Horizontal Reference Datum Code: North American Datum of 1927
Coordinate Data Source Code:
An organization or individual that contracts to perform work.
Source Map Scale Number: 15
Emission Release Point Type: 2 - VERTICAL
Stack Height (ft): 69
Effective Stack Diameter (ft): 2
Exit Gas Temperature (F): 80
Exit Gas Velocity (ft/s): 85
Stack Fenceline Distance (ft): 125
Volumetric Flow Rate (acfs): 267.04

* If the "Emission Release Point Type" = 01 - Fugitives, please answer the following:
Non-stack Horizontal Dimension (sq ft): 0
Non-stack Vertical Dimension (ft): 0.0

save submit

Effective Diameter Calculator - Microsoft In...

The Stack in question is:

Circular -

For circular stacks, the effective diameter is the stack diameter.

Non-circular -

For non-circular stacks, the formula to find effective diameter is: ED = ($\sqrt{}$ (L* W / π)) * 2. Use the calculator below to determine the effective diameter of your non-circular stack.

Stack Length (L)

Stack Width (W)

*** Note: All measurements in feet.**

calculate

Effective Diameter (in feet):

insert value into stack sheet

Emissions Inventory

Please enter Point Information

Current Point: **DF 1**

DEQ Facility ID: **06900666** Inventory Year: **2002** AIRS Point ID: **010**

Facility Point ID: DF 1

Point Description: The injection mold for the Dragonfly

Facility Stack ID: Dragonfly

Design Capacity: 0.0

Units: Select Numerator / Select Denominator

Max Nameplate Capacity: 0.0 (in Million Watts)

Processes:

Process ID	Completed
1 - Plastic Injection Mold - Natural Gas Fired	✕

add process

delete process

save submit

Emissions Inventory

Please enter Process Information

Process ID: **1**

DEQ Facility ID: **06900666** Inventory Year: **2002** Facility Point ID: **DF 1**

SCC: 30290003

Process Material: Natural Gas

Material I/O: PROCESS MATERIAL USED (INPUT)

Emission Process Description: Plastic Injection Mold - Natural Gas Fired

Actual Annual Throughput: 138

Units Per Year: MILLION CUBIC FEET

Operations

Weekday Operation %: 72

Winter Operation %: 25

Spring Operation %: 25

Summer Operation %: 25

Fall Operation %: 25

Total Operation %: 100%

Operation Hours per Day: 12

Operation Days per Week: 6

Operation Weeks per Year: 48

Operation Hours per Year: 3456

Fuel

Heat Content: 1000

Sulfur Content: 0

Ash Content: 0

Process Emissions

Pollutant:	Completed:
primary pm2.5 (includes filterables + condensibles)	✕

add pollutant

delete pollutant

save submit

Emissions Inventory

Please enter Pollutant Information

Process ID: **1** Inventory Year: **2002** Facility Point ID: **DF 1**

Current Pollutant: Primary PM2.5, Filterable Portion Only

Emissions: 2 TON/YR

Emission Factor: .095

Units: POUNDS / TONS

Emission Calculation Method: ENGINEERING JUDGEMENT

Emission Factor Reliability: AP-42 RATING E

Emission Factor Reference: Assume 50 percent of PM10=PM2.5

Complete Control System Description: Gas Washer

Primary Control %: 80

Primary Control Reference: Engineering Estimate

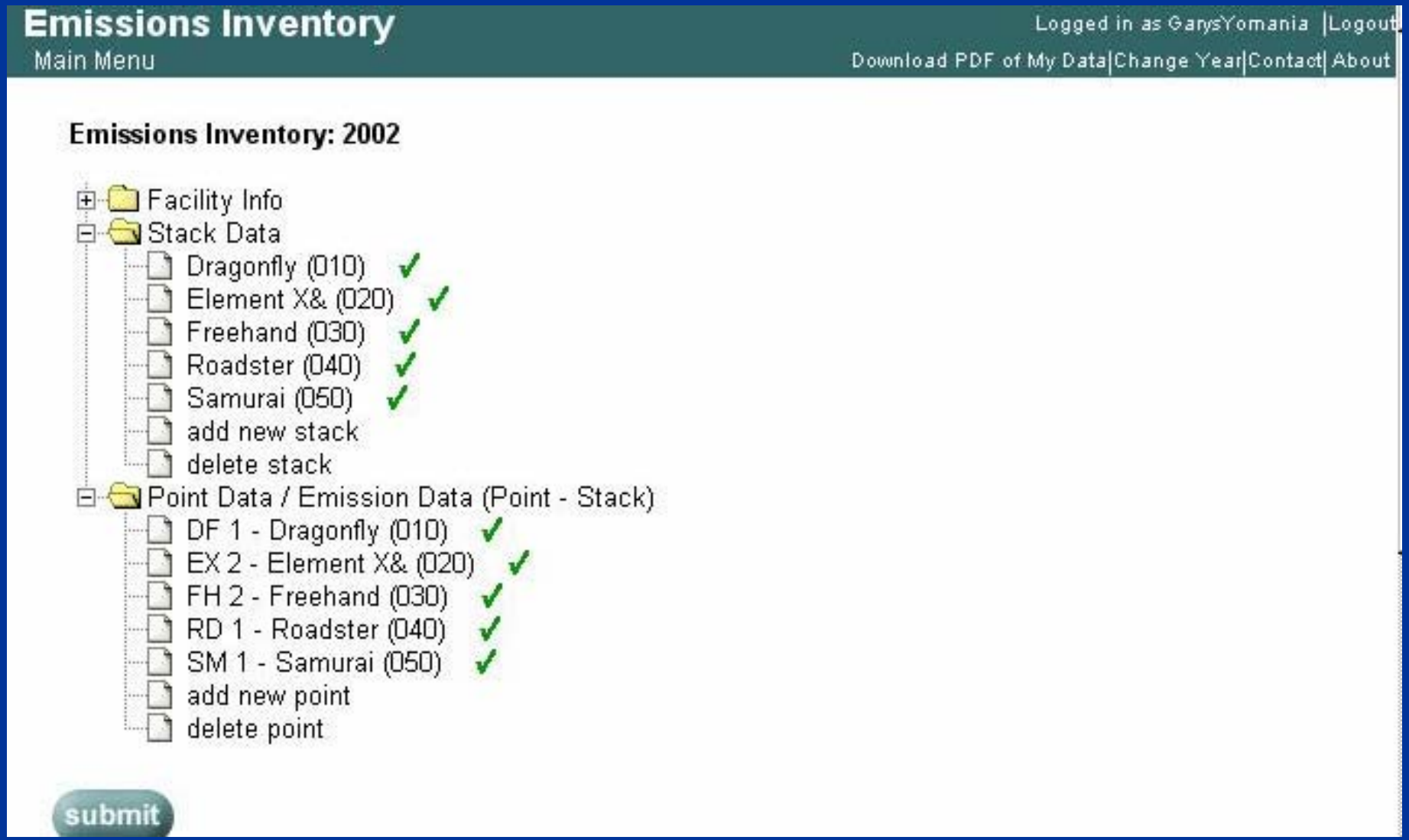
Primary Control Type: SCRUBBER

Secondary Control %: 0

Secondary Control Reference:

Secondary Control Type: UNCONTROLLED

save submit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add new point
delete point
submit


Microsoft Internet Explorer
By pressing OK you are verifying that all of this data, to the best of your knowledge, is correct and true.
If this is the case, please press OK to submit your data to the Idaho Department of Environment Quality for review.
If this is not the case, please press the cancel button and contact DEQ for help.
OK
Cancel

2002 Idaho Air Quality Emissions Inventory Submittal Form

Please send this signed form to:

Idaho Department of Environmental Quality
Attn: Gary Reinbold - Air Quality Division
1410 North Hilton
Boise, ID 83706

Facility Name: Garys Yomania **ID:** 06900666

Street Address: 123 Yo-Yo Drive

City: Boise **State:** ID **ZIP:** 83702 **County:** Ada County

Mailing Address: P.O. Box 321

City: Boise **State:** ID **ZIP:** 83702

Contact Person: Ned Gunderson

Phone: 2085551230 **Email:** ngunders@yomania.org

Fax: 2085550123

Certification in accordance with IDAPA 58.01.01.123

The statements and information contained in our 2002 Emission Inventory submittal are true, accurate, and complete based on reasonable knowledge and inquiry.

Name of Responsible Official (Please Print): _____

Signature: _____ **Date:** ___/____/_____

Links:

Online Animated Tutorial

Online Animated Tutorial Two: Adding/Deleting Stacks & Points

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A summary of the Consolidated Emissions Reporting Rule(CERR)

The final CERR

CERR activation of point source reporting requirements for PM2.5 and NH3

Fugitive Emissions Source List

EPA drop down list codes

Source Classification Codes (SCC)

Download the Emissions Inventory Application

Idaho State Department of Environmental Quality

- Emission Inventory
- Graphic User Interface
- Guidance

SCC	SCC1_DESC	SCC3_DESC	SCC6_DESC	SCC8_DESC	EASUI	MATERIAL
10100101	External Combustion Boil	Electric Gene	Anthracite Coal	Pulverized Coal	Tons	Anthracite
10100102	External Combustion Boil	Electric Gene	Anthracite Coal	Traveling Grate (Overfeed) Stoker	Tons	Anthracite
10100201	External Combustion Boil	Electric Gene	Bituminous/Subbi	Pulverized Coal: Wet Bottom (Bituminous Coal)	Tons	Bituminous Coal
10100202	External Combustion Boil	Electric Gene	Bituminous/Subbi	Pulverized Coal: Dry Bottom (Bituminous Coal)	Tons	Bituminous Coal
10100203	External Combustion Boil	Electric Gene	Bituminous/Subbi	Cyclone Furnace (Bituminous Coal)	Tons	Bituminous Coal
10100204	External Combustion Boil	Electric Gene	Bituminous/Subbi	Spreader Stoker (Bituminous Coal)	Tons	Bituminous Coal
10100205	External Combustion Boil	Electric Gene	Bituminous/Subbi	Traveling Grate (Overfeed) Stoker (Bituminous Coal)	Tons	Bituminous Coal
10100211	External Combustion Boil	Electric Gene	Bituminous/Subbi	Wet Bottom (Tangential) (Bituminous Coal)	Tons	Bituminous Coal
10100212	External Combustion Boil	Electric Gene	Bituminous/Subbi	Pulverized Coal: Dry Bottom (Tangential) (Bituminous	Tons	Bituminous Coal
10100215	External Combustion Boil	Electric Gene	Bituminous/Subbi	Cell Burner (Bituminous Coal)	Tons	Bituminous Coal
10100217	External Combustion Boil	Electric Gene	Bituminous/Subbi	Atmospheric Fluidized Bed Combustion: Bubbling Be	Tons	Bituminous Coal
10100218	External Combustion Boil	Electric Gene	Bituminous/Subbi	Atmospheric Fluidized Bed Combustion: Circulating	Tons	Bituminous Coal
10100221	External Combustion Boil	Electric Gene	Bituminous/Subbi	Pulverized Coal: Wet Bottom (Subbituminous Coal)	Tons	Subbituminous Coal
10100222	External Combustion Boil	Electric Gene	Bituminous/Subbi	Pulverized Coal: Dry Bottom (Subbituminous Coal)	Tons	Subbituminous Coal
10100223	External Combustion Boil	Electric Gene	Bituminous/Subbi	Cyclone Furnace (Subbituminous Coal)	Tons	Subbituminous Coal
10100224	External Combustion Boil	Electric Gene	Bituminous/Subbi	Spreader Stoker (Subbituminous Coal)	Tons	Subbituminous Coal
10100225	External Combustion Boil	Electric Gene	Bituminous/Subbi	Traveling Grate (Overfeed) Stoker (Subbituminous Co	Tons	Subbituminous Coal
10100226	External Combustion Boil	Electric Gene	Bituminous/Subbi	Pulverized Coal: Dry Bottom Tangential (Subbitumino	Tons	Subbituminous Coal
10100235	External Combustion Boil	Electric Gene	Bituminous/Subbi	Cell Burner (Subbituminous Coal)	Tons	Subbituminous Coal
10100238	External Combustion Boil	Electric Gene	Bituminous/Subbi	Atmospheric Fluidized Bed Combustion - Circulating	Tons	Subbituminous Coal
10100300	External Combustion Boil	Electric Gene	Lignite	Pulverized Coal: Wet Bottom	Tons	Lignite
10100301	External Combustion Boil	Electric Gene	Lignite	Pulverized Coal: Dry Bottom, Wall Fired	Tons	Lignite
10100302	External Combustion Boil	Electric Gene	Lignite	Pulverized Coal: Dry Bottom, Tangential Fired	Tons	Lignite
10100303	External Combustion Boil	Electric Gene	Lignite	Cyclone Furnace	Tons	Lignite
10100304	External Combustion Boil	Electric Gene	Lignite	Traveling Grate (Overfeed) Stoker	Tons	Lignite
10100306	External Combustion Boil	Electric Gene	Lignite	Spreader Stoker	Tons	Lignite
10100316	External Combustion Boil	Electric Gene	Lignite	Atmospheric Fluidized Bed ** (See 101003-17 & -18)	Tons	Lignite

Emissions Inventory

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Export | Users

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Facility List For 2002

2002 Argonne National Laboratory W INEEL ✓
2002 Artco E
2002 Ash Grove Cement ✓
2002 Avista Corporation E
2002 Basic American Foods ✗
2002 Basic American Foods ✓
2002 Basic American Foods Inc ✓
2002 Bennett Lumber Products Inc E
2002 Boise Cascade E
2002 Charmac E
2002 Chevron Pipe Line Company and NW Terminalling Co E
2002 Crown Pacific Limited Partnership Coeur D Alene E
2002 Dynamic Fabricators, LLC E
2002 Evander Andrew Complex ✓
2002 Evergreen Forests & Tamarack Energy Partnership ✓
2002 Fiberglass Systems E
2002 flexcel ✓
2002 Foam Molders E
2002 Garys Yomania ✓
2002 Idaho Fresh Pak, IdahoFalls ✓
2002 Idaho Fresh Pak, Lewisville ✓
2002 Idaho Supreme Potatoes ✓
2002 Idaho Veneer Inc E
2002 INEEL AMWTF ✓
2002 INEEL Central Facilities Area (CFA) ✓
2002 INEEL INTEC ✓

Questions?

Contact Info:

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