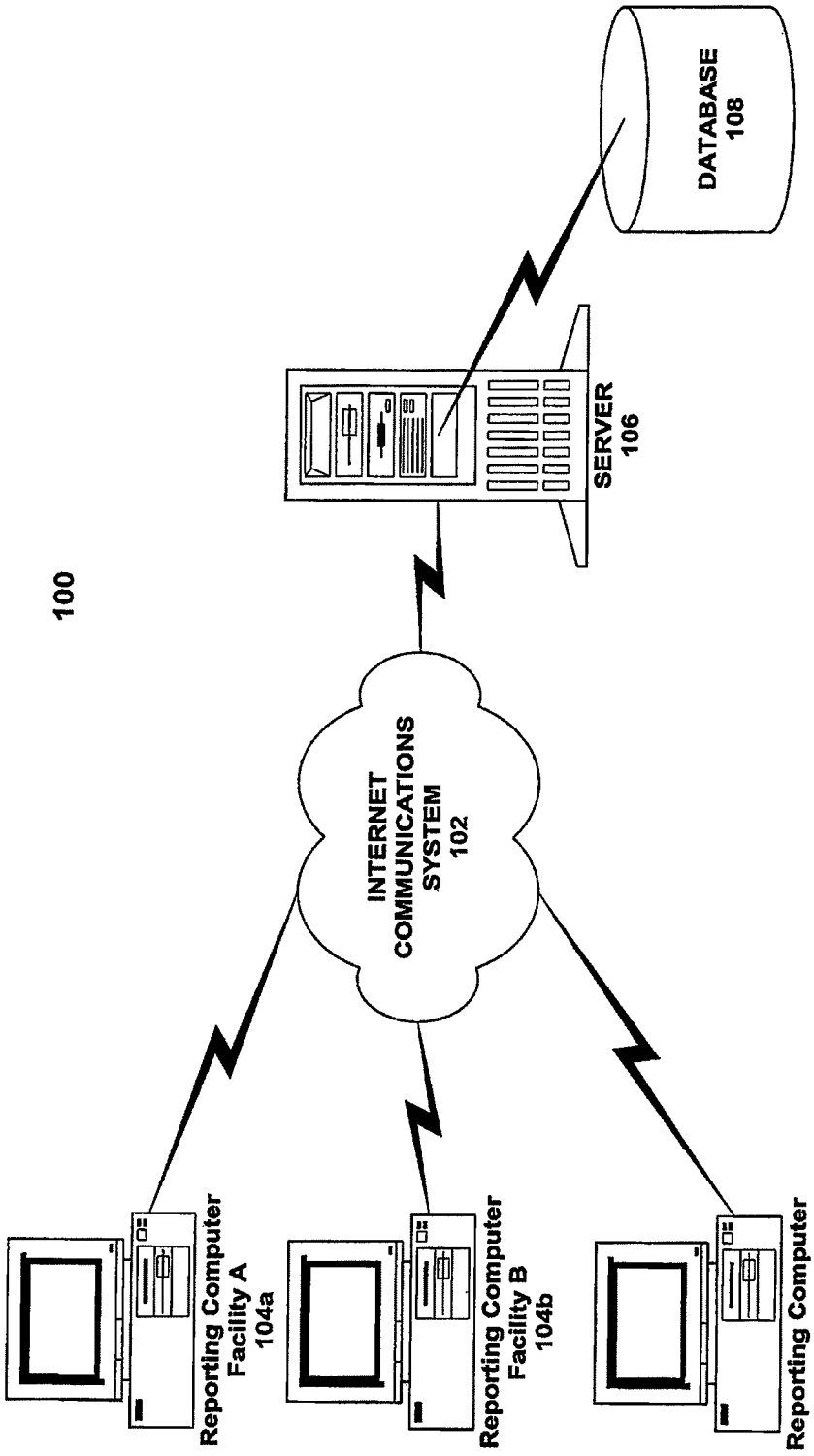

100
DATABASE
108
SERVER
106
INTERNET
COMMUNICATIONS
SYSTEM
102
Reporting Computer
Facility A
104a
Reporting Computer
Facility B
104b
Reporting Computer
Facility C
104c

Fig. 1

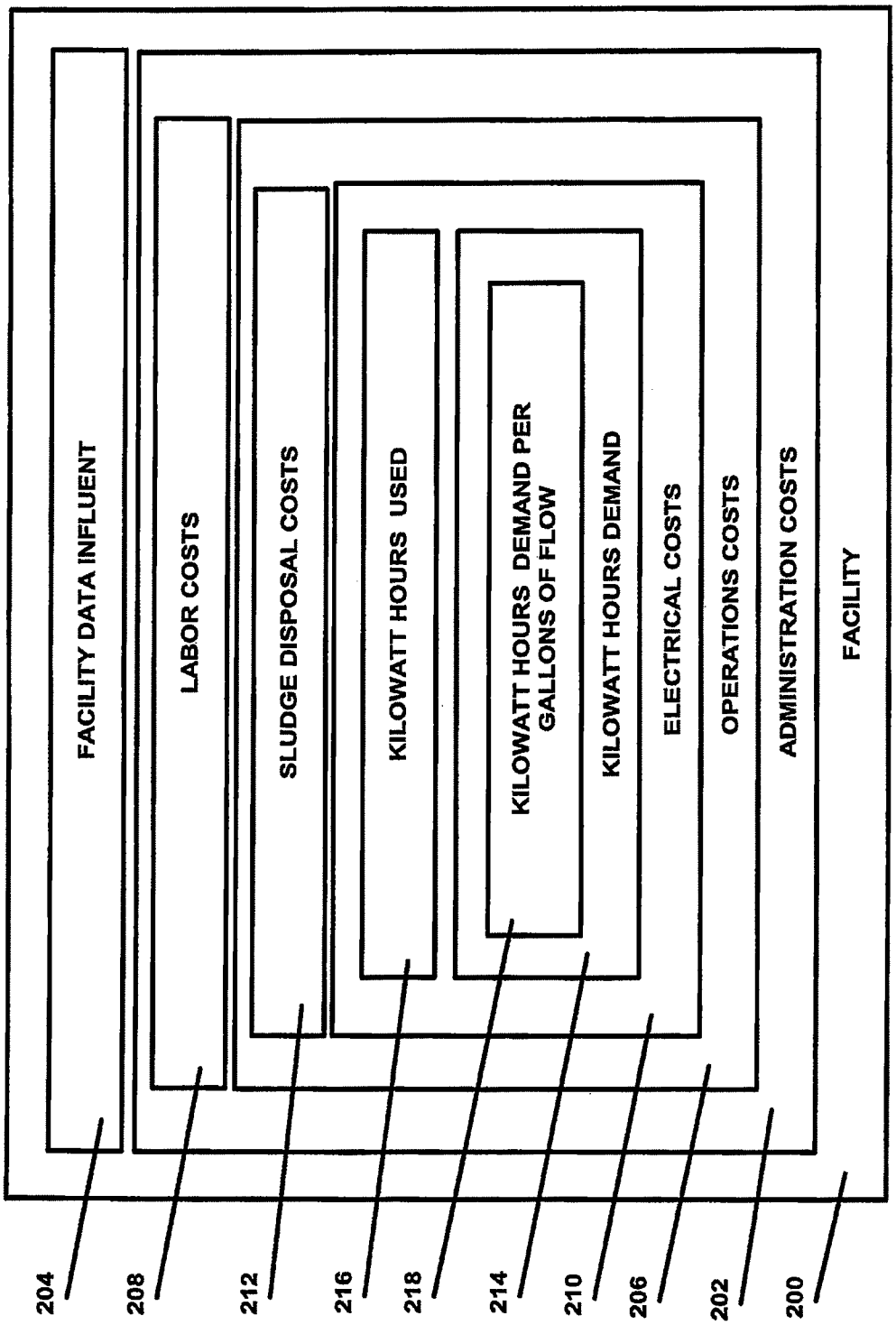

FACILITY DATA INFLUENT
LABOR COSTS
SLUDGE DISPOSAL COSTS
KILOWATT HOURS USED
KILOWATT HOURS DEMAND PER GALLONS OF FLOW
KILOWATT HOURS DEMAND
ELECTRICAL COSTS
OPERATIONS COSTS
ADMINISTRATION COSTS
FACILITY
204
208
212
216
218
214
210
206
202
200

Fig. 2

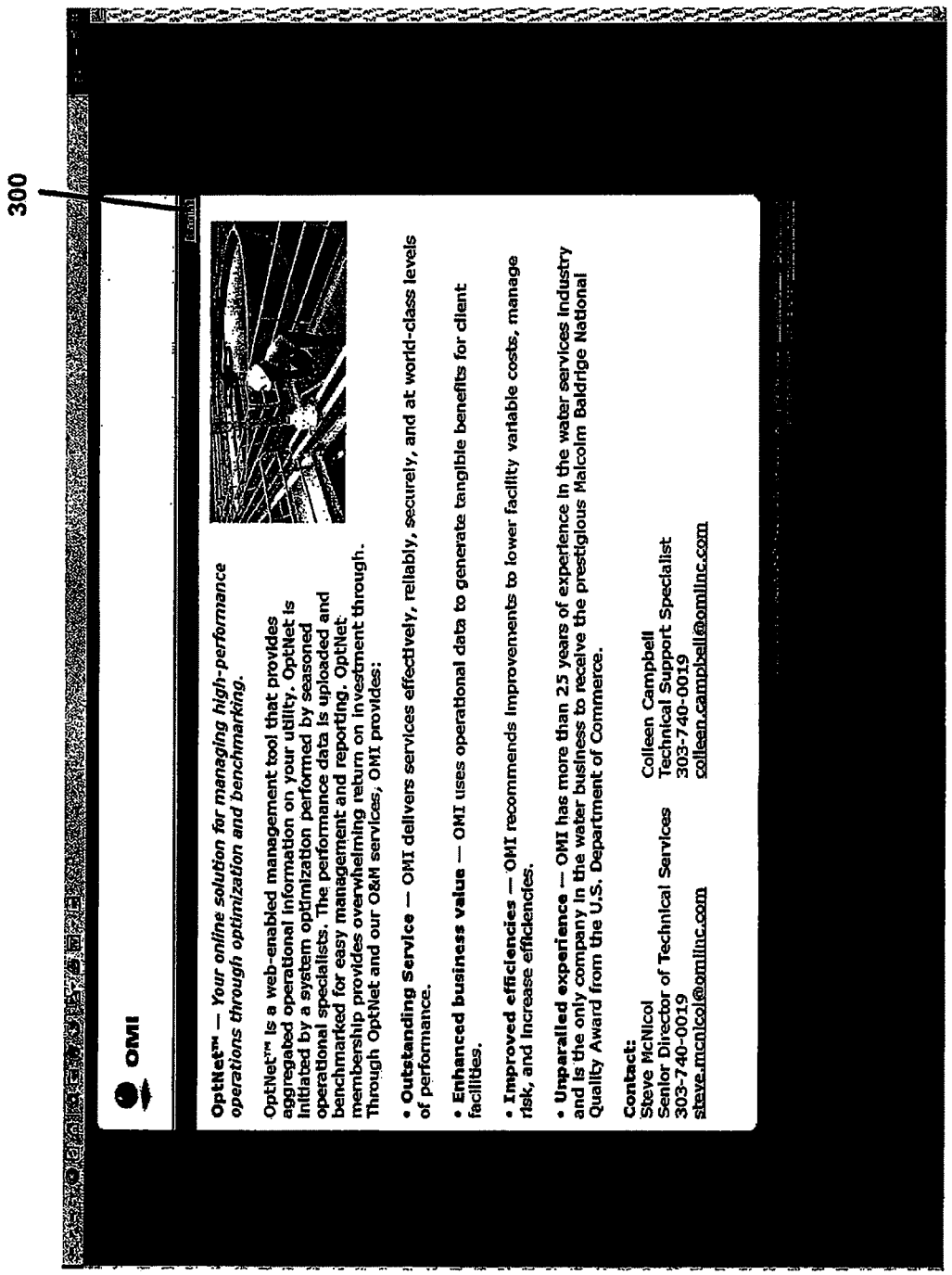

300
OMI
OptNet™ — Your online solution for managing high-performance operations through optimization and benchmarking.
OptNet™ is a web-enabled management tool that provides aggregated operational information on your utility. OptNet is initiated by a system optimization performed by seasoned operational specialists. The performance data is uploaded and benchmarked for easy management and reporting. OptNet membership provides overwhelming return on investment through. Through OptNet and our O&M services; OMI provides:
• Outstanding Service — OMI delivers services effectively, reliably, securely, and at world-class levels of performance.
• Enhanced business value — OMI uses operational data to generate tangible benefits for client facilities.
• Improved efficiencies — OMI recommends improvements to lower facility variable costs, manage risk, and increase efficiencies.
• Unparalled experience — OMI has more than 25 years of experience in the water services industry and is the only company in the water business to receive the prestigious Malcolm Baldrige National Quality Award from the U.S. Department of Commerce.
Contact:
Steve McNicol
Senior Director of Technical Services
303-740-0019
steve.mcnicol@omiinc.com
Colleen Campbell
Technical Support Specialist
303-740-0019
colleen.campbell@omiinc.com

Fig. 3

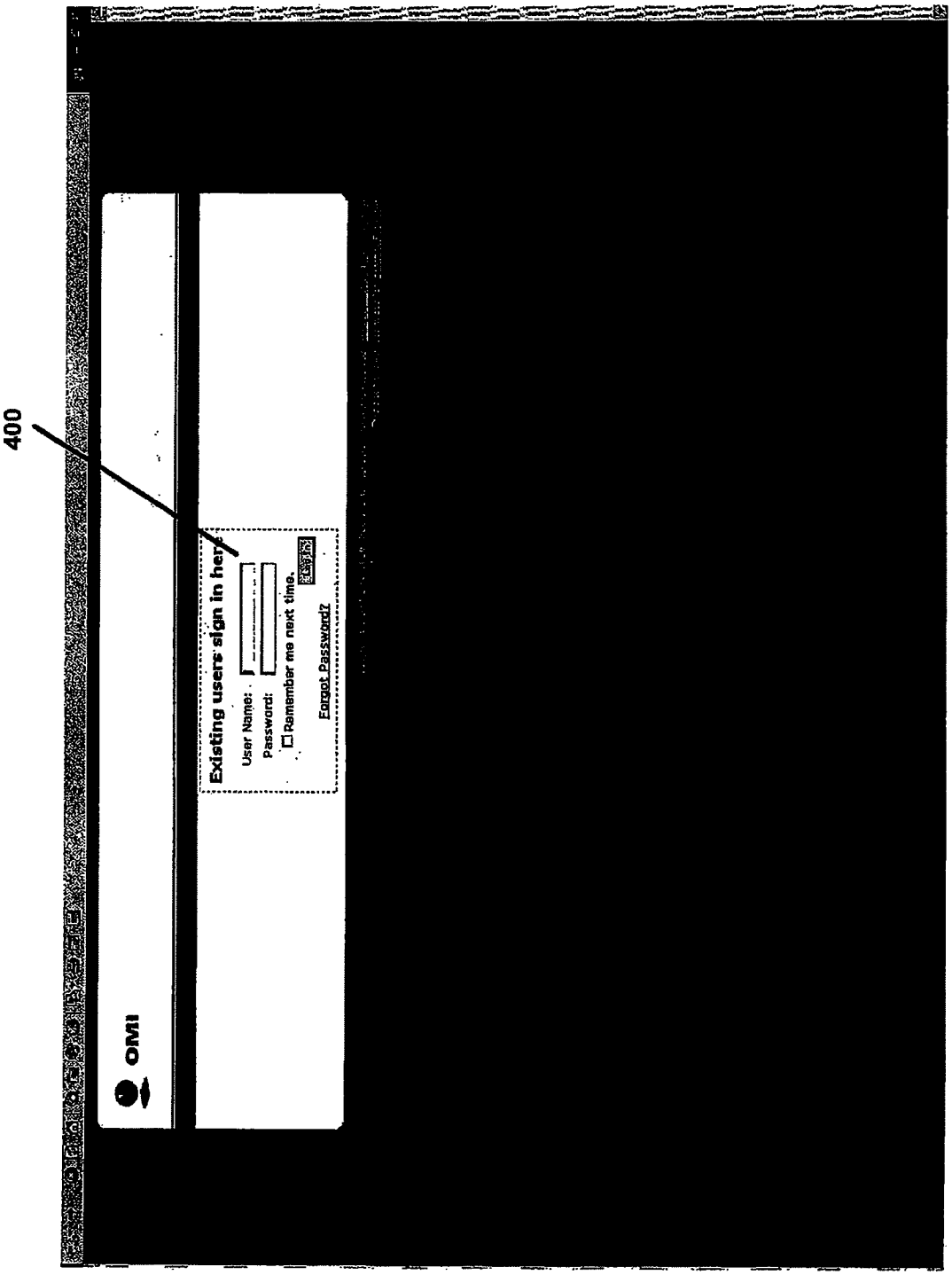

400
OMI
Existing users sign in here
User Name:
Password:
Remember me next time.
Login
Forgot Password?

Fig. 4

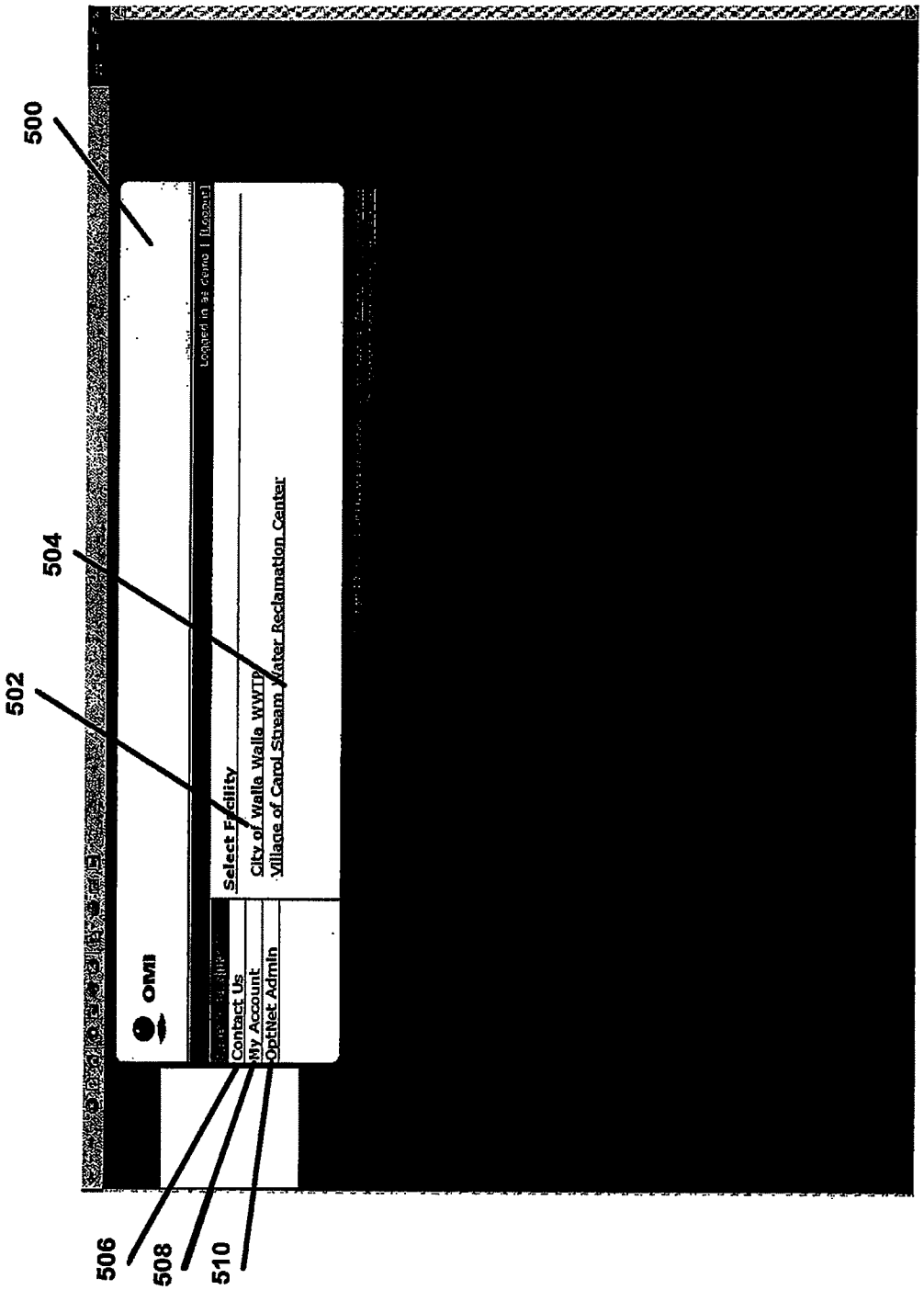

500
502
504
506
508
510
OMI
Contact Us
My Account
OptNet Admin
Select Facility
City of Walla Walla WWTP
Village of Carol Stream Water Reclamation Center

Fig. 5

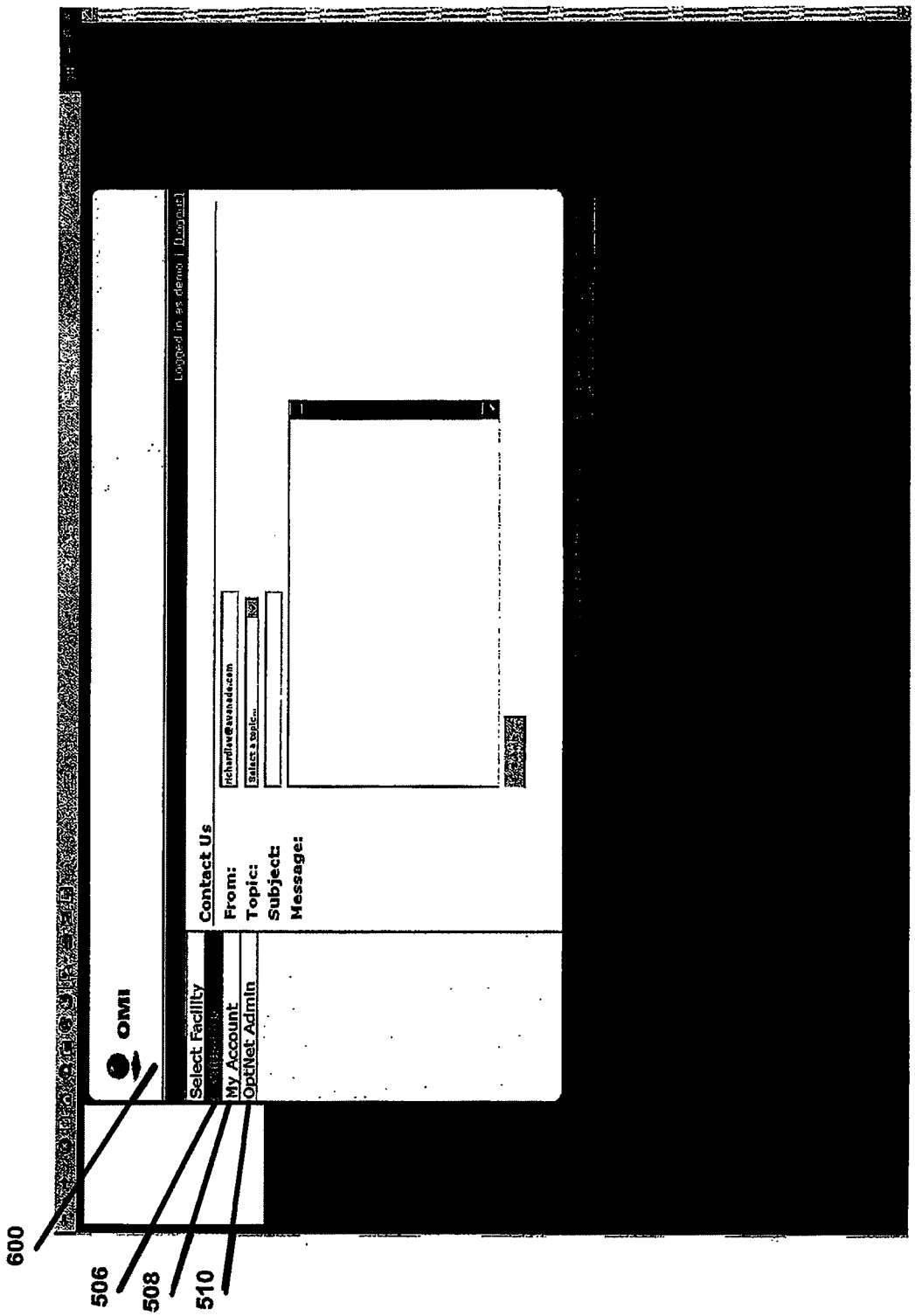

600
506
508
510
OMI
Logged in as demo | [Logout]
Select Facility
My Account
OptNet Admin
Contact Us
From:
Topic:
Subject:
Message:

Fig. 6a

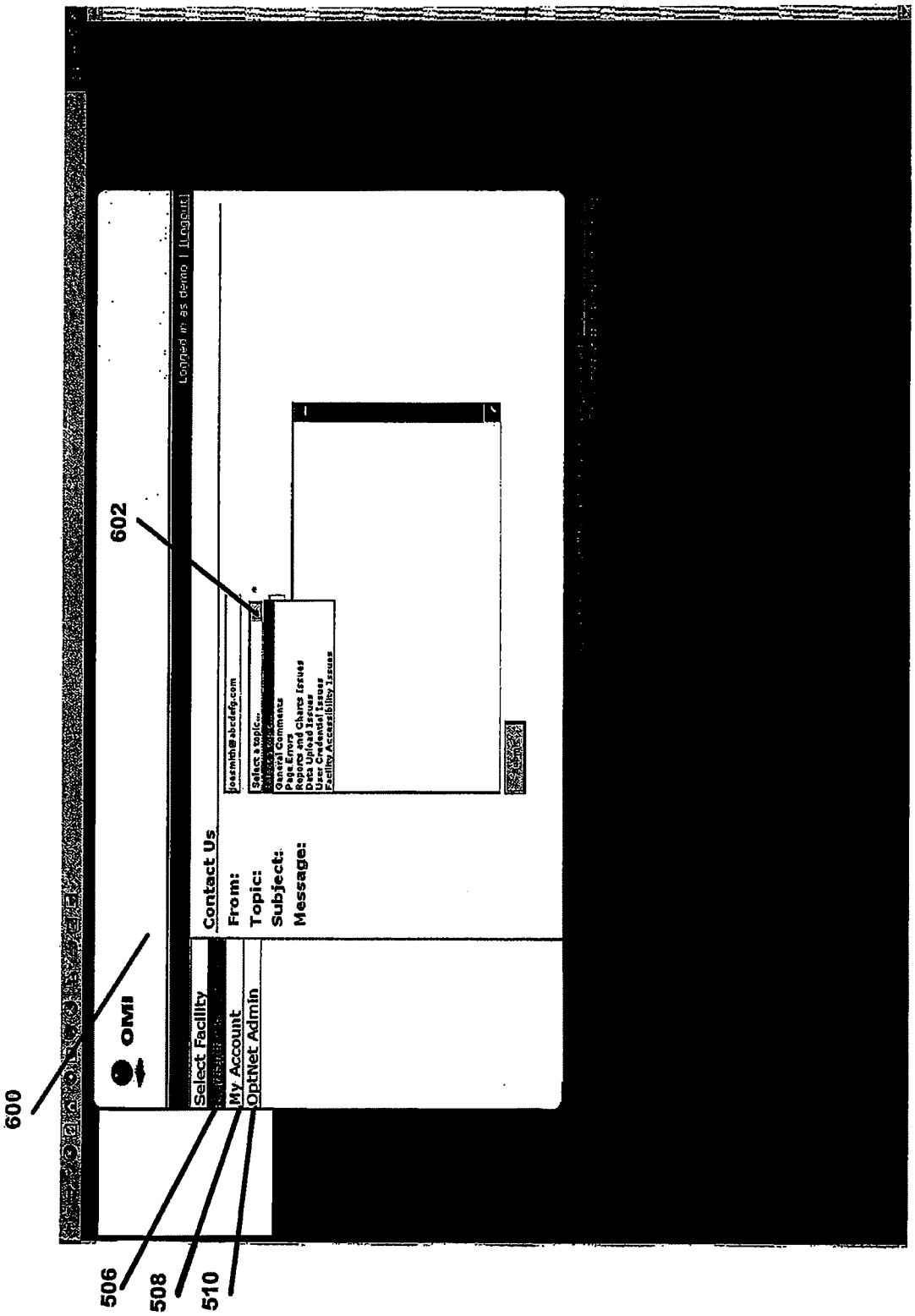

600
602
506
508
510
OMI
Select Facility
My Account
OptNet Admin
Contact Us
From:
Topic:
Subject:
Message:
Logged in as demo | Logout

Fig. 6b

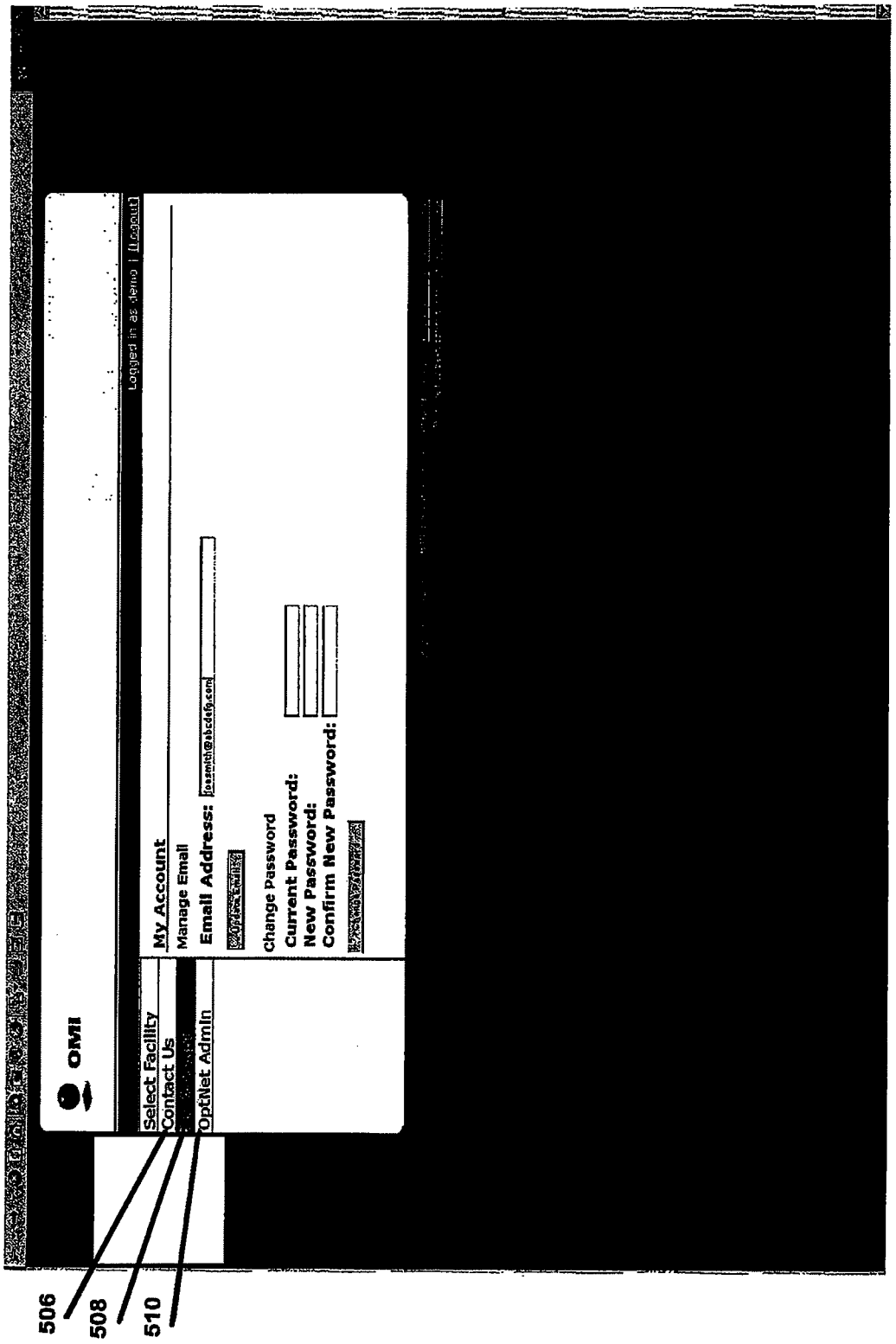

OMI
Logged in as demo | Logout
Select Facility
Contact Us
OptiNet Admin
My Account
Manage Email
Email Address:
Change Password
Current Password:
New Password:
Confirm New Password:
506
508
510

Fig. 7

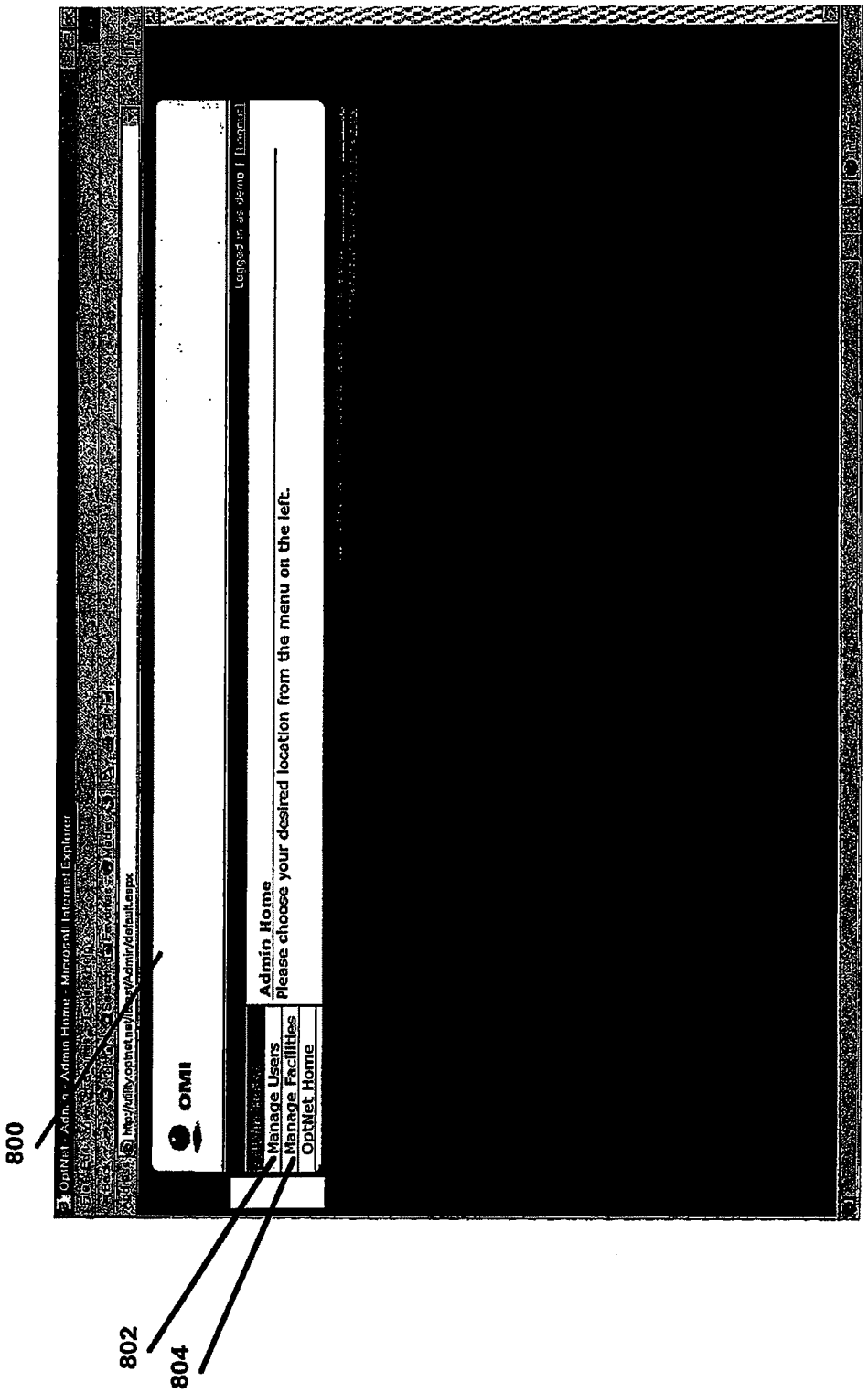

800
802
804
Admin Home
Please choose your desired location from the menu on the left.
Manage Users
Manage Facilities
OptNet Home

Fig. 8a

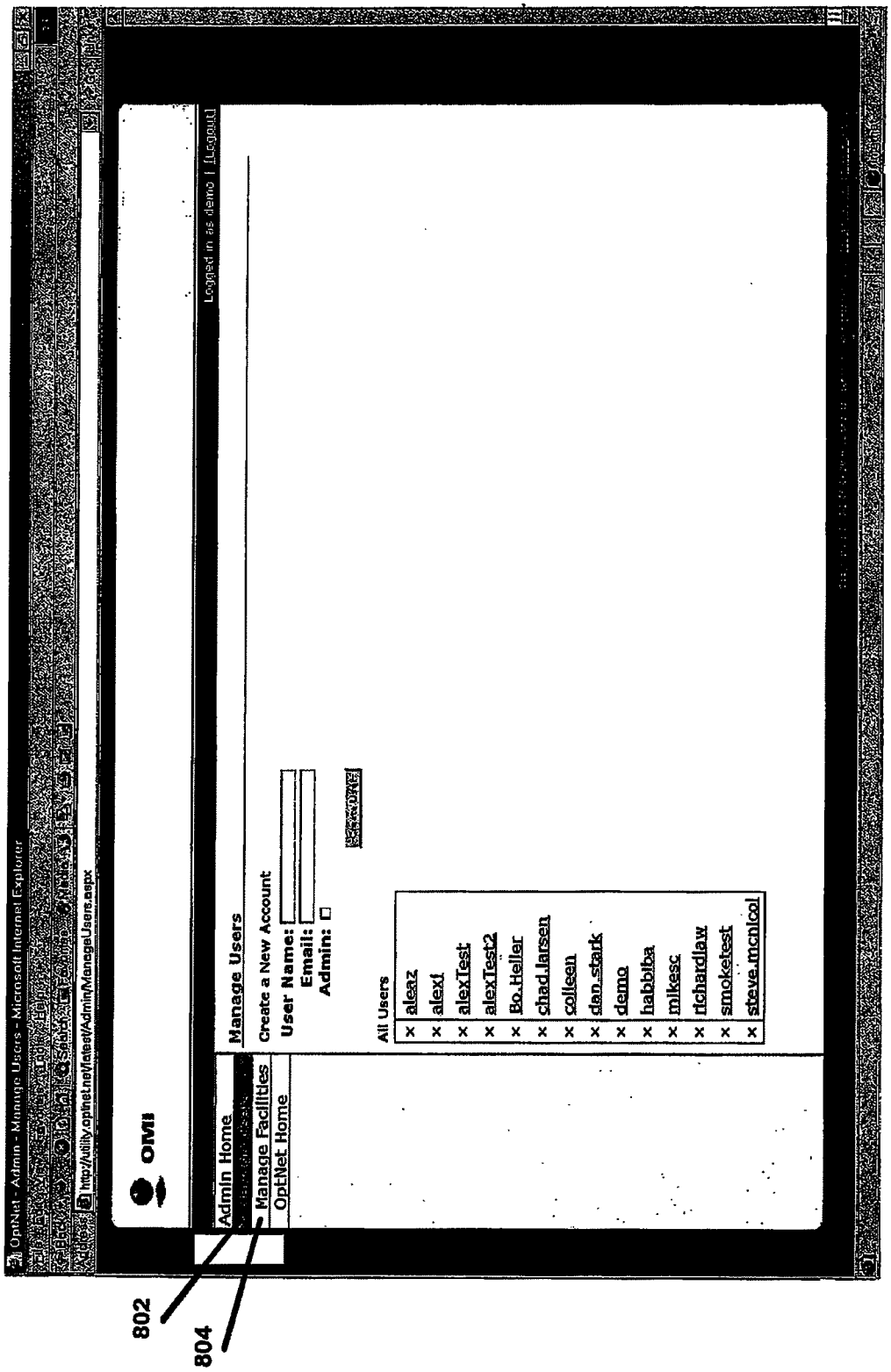

OptNet - Admin - Manage Users - Microsoft Internet Explorer
http://utility.optinet.net/latest/Admin/ManageUsers.aspx
OMI
Logged in as demo | (Logout)
Admin Home
Manage Facilities
OptNet Home
Manage Users
Create a New Account
User Name:
Email:
Admin:
Save New
All Users
alex2
alex1
alexTest
alexTest2
Bo.Heller
chad.larsen
colleen
dan.stark
demo
habbiba
mikesc
richardlaw
smoketest
steve.mcnicol
802
804

Fig. 8b

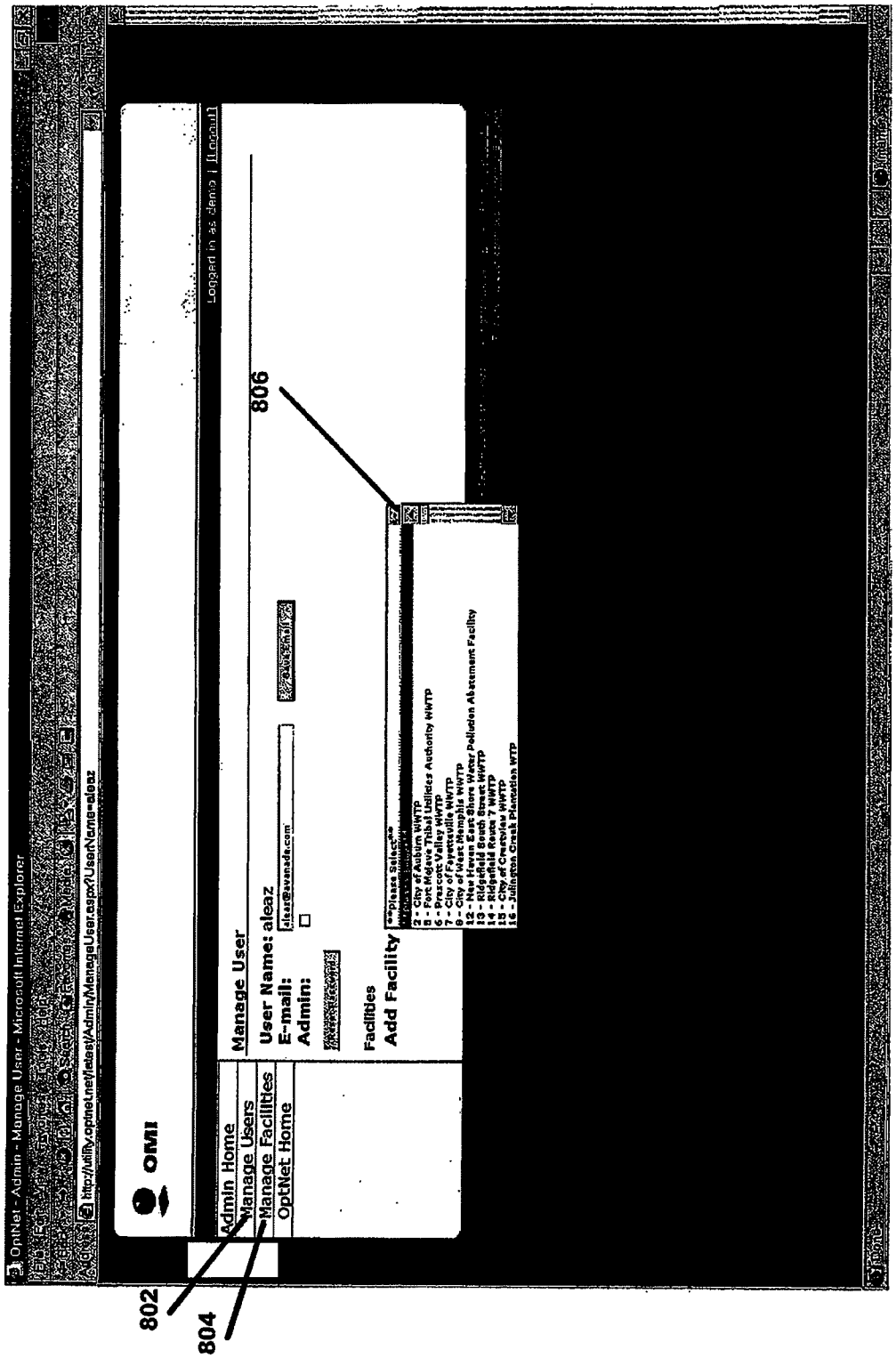

OMI
Admin Home
Manage Users
Manage Facilities
OptNet Home
Manage User
User Name: aleaz
E-mail:
Admin:
Facilities
Add Facility
806
802
804

Fig. 8c

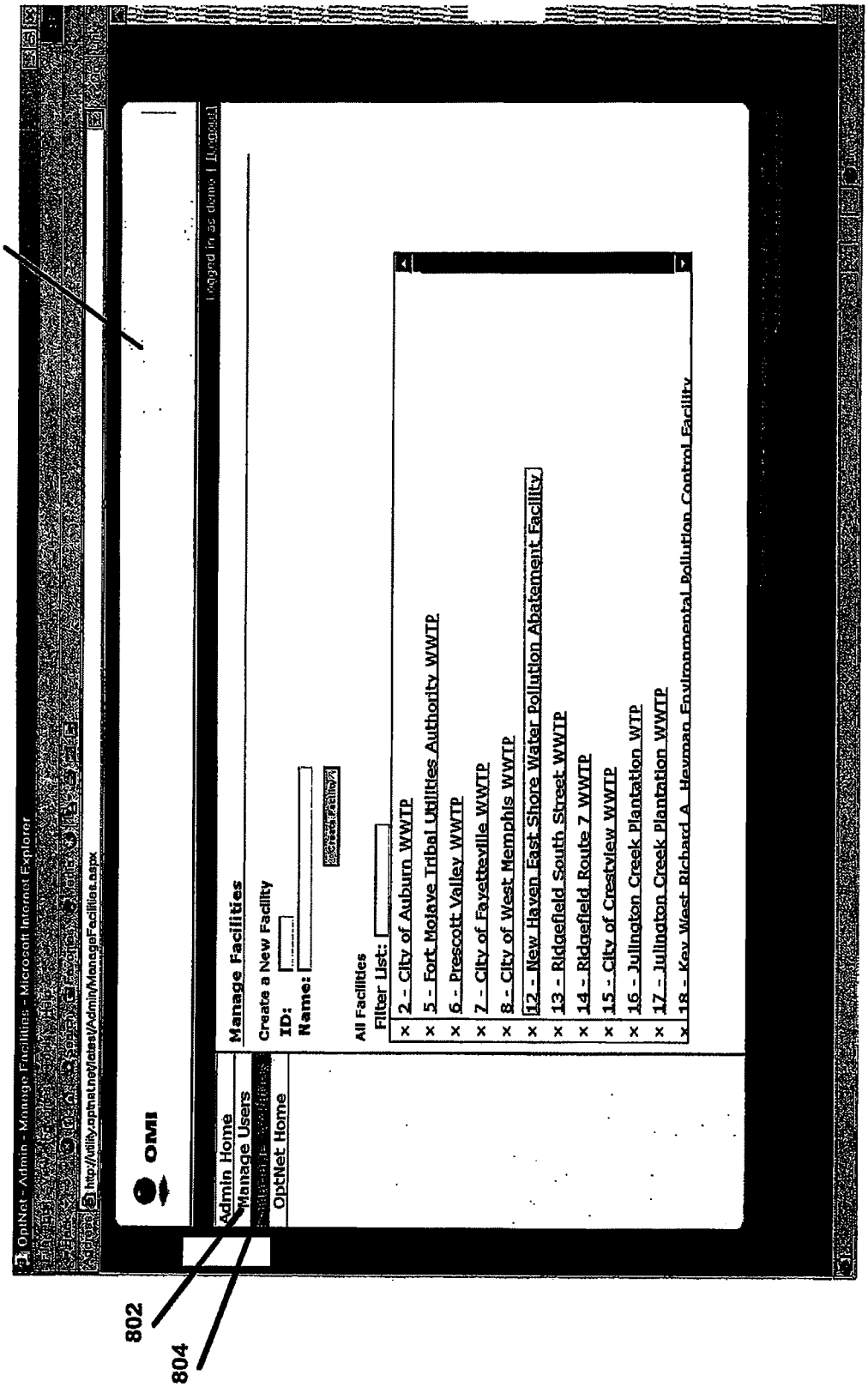

808
802
804
OptNet - Admin - Manage Facilities - Microsoft Internet Explorer
http://utility.optnet.net/rates/Admin/ManageFacilities.aspx
OMI
Admin Home
Manage Users
OptNet Home
Manage Facilities
Create a New Facility
ID:
Name:
All Facilities
Filter List:
2 - City of Auburn WWTP
5 - Fort Mojave Tribal Utilities Authority WWTP
6 - Prescott Valley WWTP
7 - City of Fayetteville WWTP
8 - City of West Memphis WWTP
12 - New Haven East Shore Water Pollution Abatement Facility
13 - Ridgefield South Street WWTP
14 - Ridgefield Route 7 WWTP
15 - City of Crestview WWTP
16 - Julington Creek Plantation WTP
17 - Julington Creek Plantation WWTP
18 - Key West Richard A. Heyman Environmental Pollution Control Facility

Fig. 8d

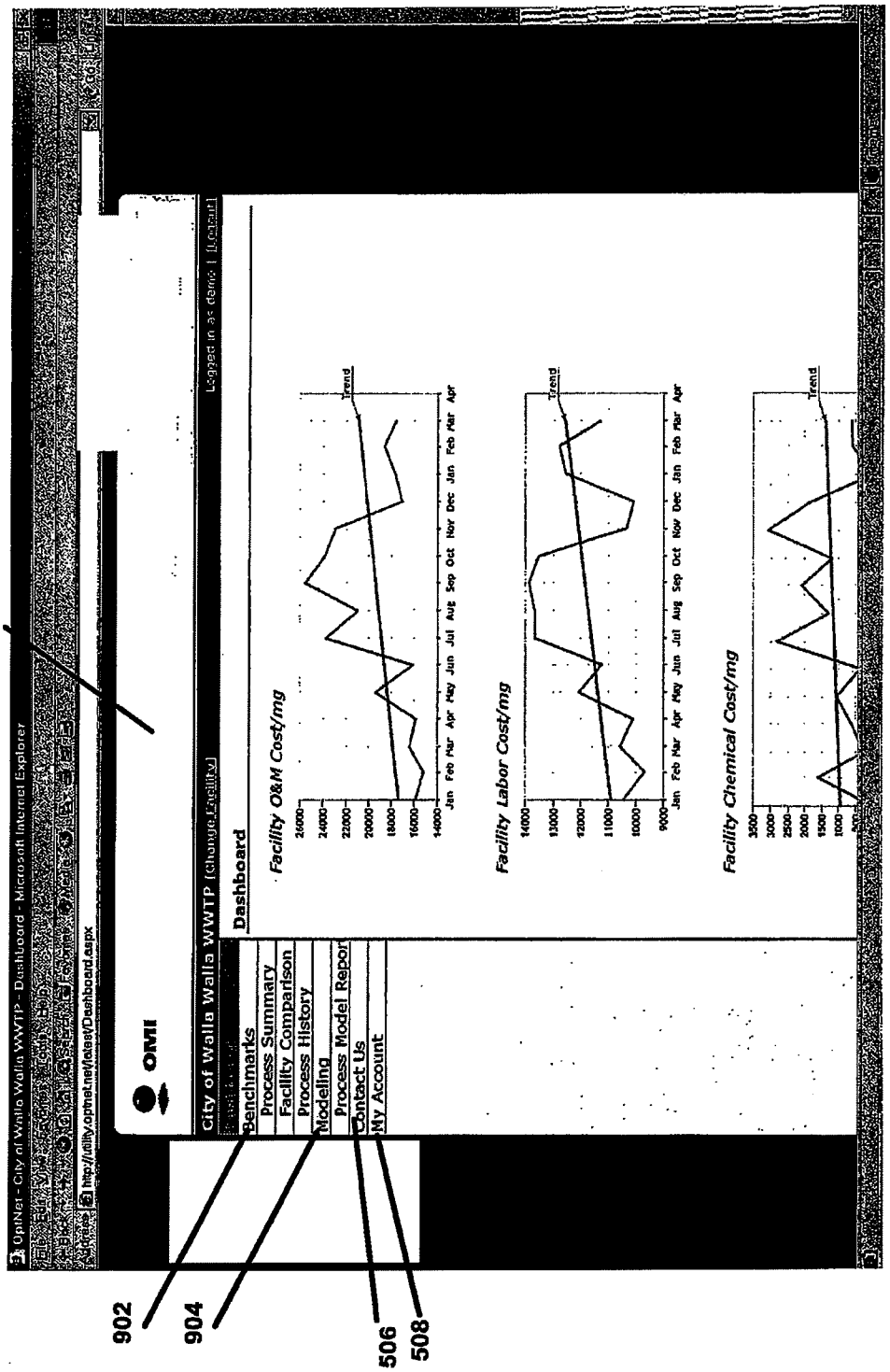

900
OMI
City of Walla Walla WWTP
Dashboard
Benchmarks
Process Summary
Facility Comparison
Process History
Modeling
Process Model Repor
Contact Us
My Account
Facility O&M Cost/mg
Facility Labor Cost/mg
Facility Chemical Cost/mg
Trend
902
904
506
508

Fig. 9a

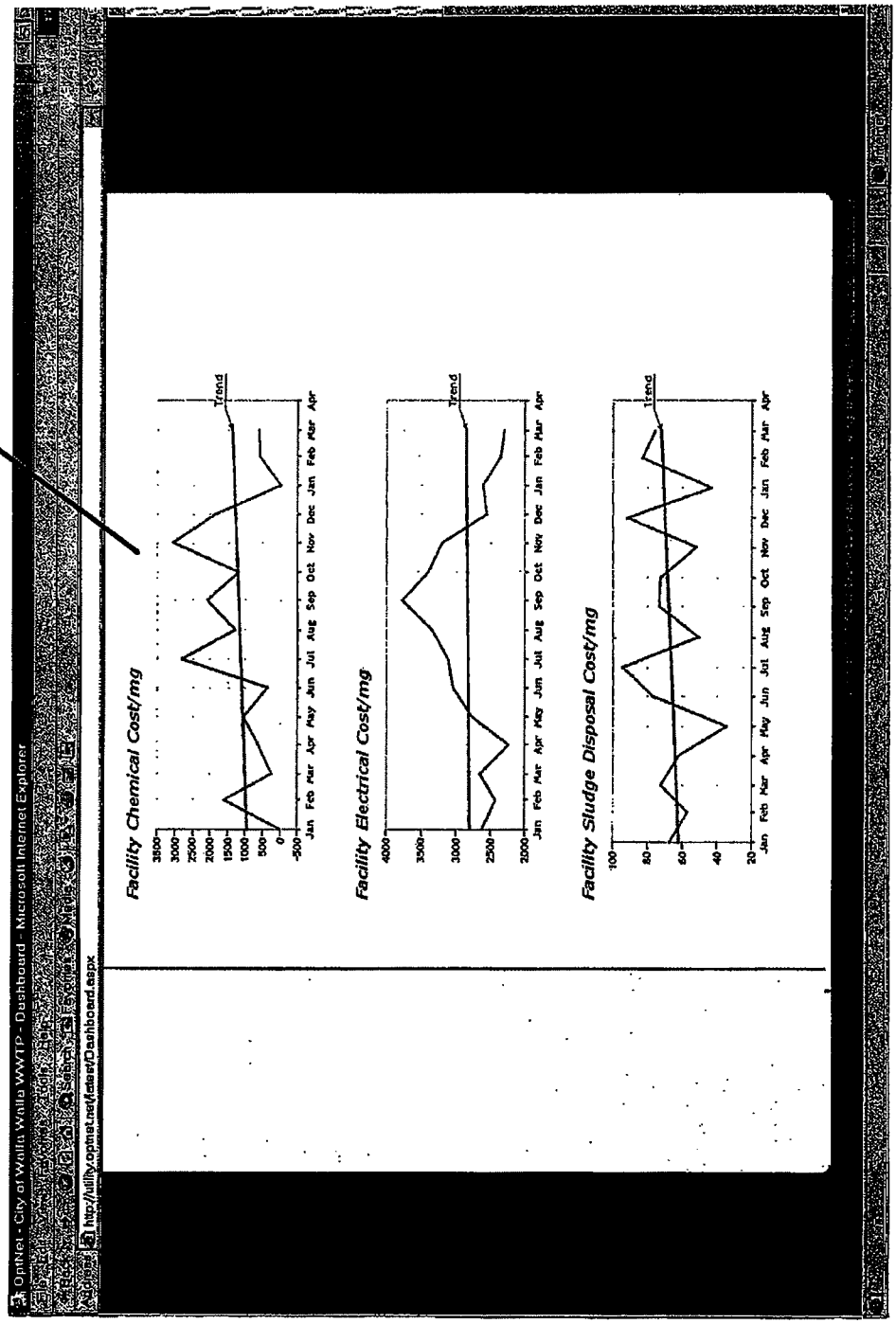

900
OptNet - City of Walla Walla WWTP - Dashboard - Microsoft Internet Explorer
http://sully.optnet.net/dstart/Dashboard.aspx
Facility Chemical Cost/mg
Facility Electrical Cost/mg
Facility Sludge Disposal Cost/mg
Trend
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr

Fig. 9b

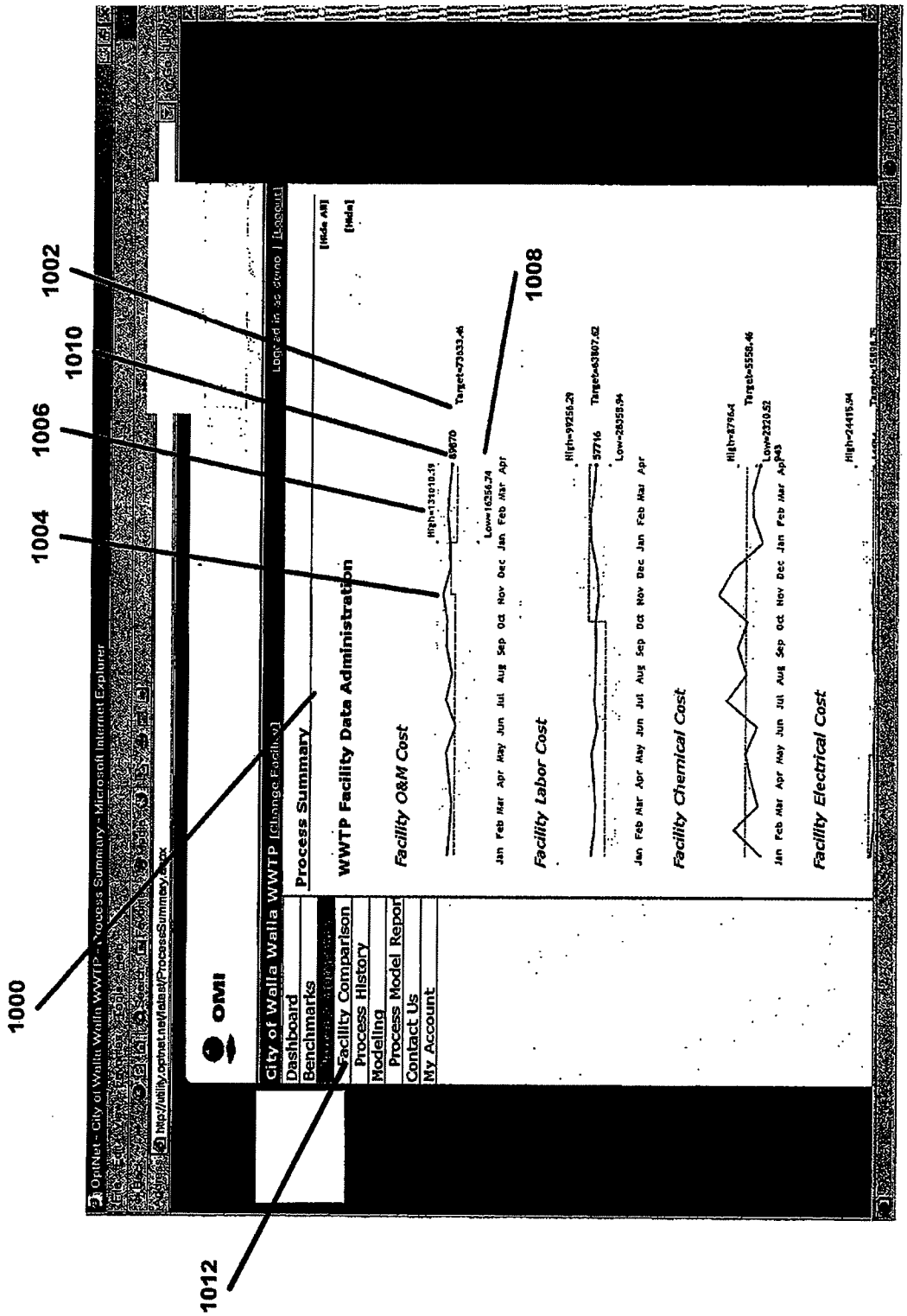

1000
1002
1004
1006
1008
1010
1012
OptNet - City of Walla Walla WWTP - Process Summary - Microsoft Internet Explorer
City of Walla Walla WWTP [Change Facility]
Logged in as demo | [Logout]
Dashboard
Benchmarks
Process Summary
Facility Comparison
Process History
Modeling
Process Model Repor
Contact Us
My Account
WWTP Facility Data Administration
[Hide All]
[Hide]
Facility O&M Cost
Facility Labor Cost
Facility Chemical Cost
Facility Electrical Cost
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr

Fig. 10

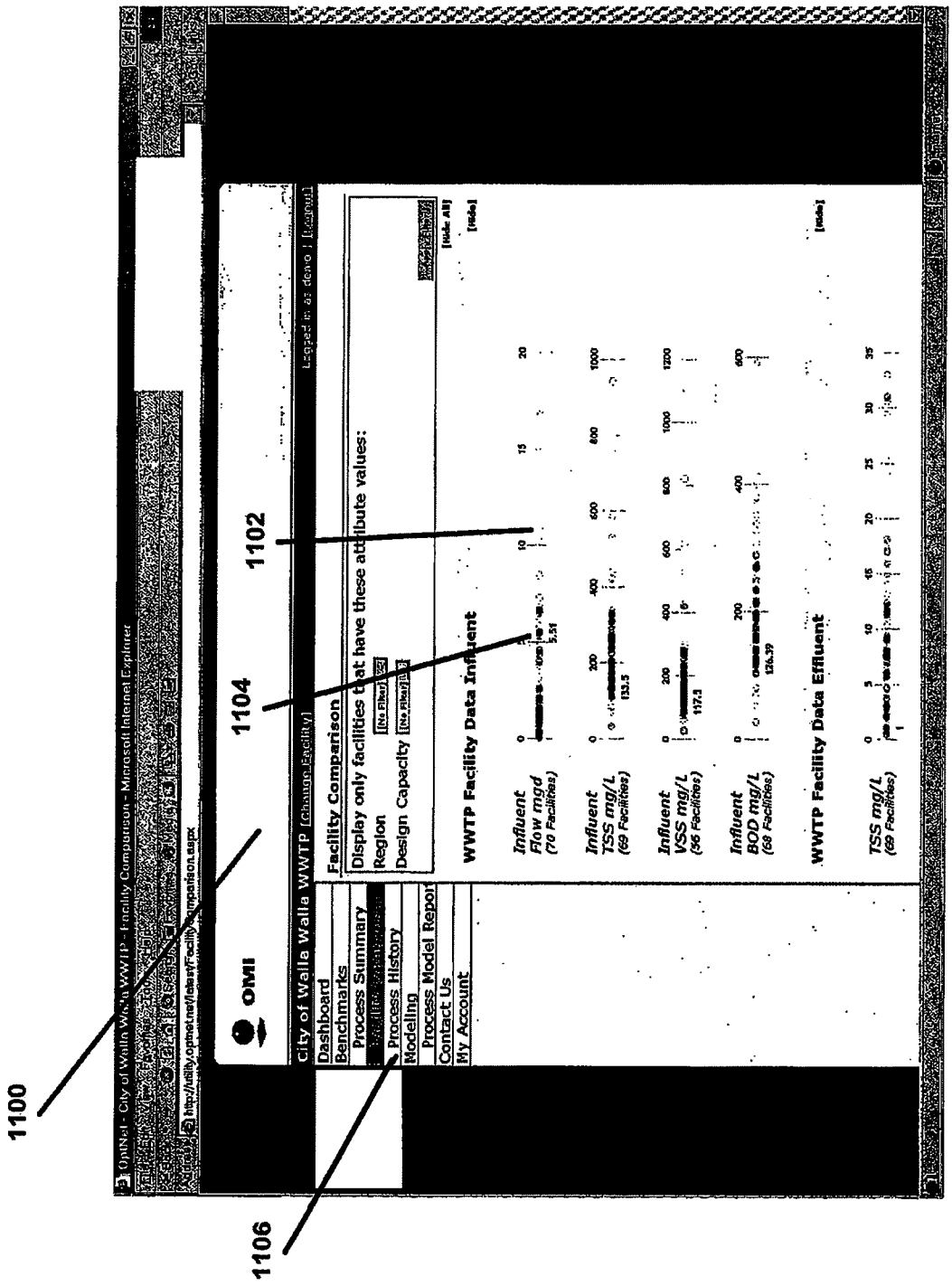

1100
1102
1104
1106
OMI
City of Walla Walla WWTP
Facility Comparison
Display only facilities that have these attribute values:
Region
Design Capacity
Dashboard
Benchmarks
Process Summary
Process History
Modeling
Process Model Repor
Contact Us
My Account
WWTP Facility Data Influent
WWTP Facility Data Effluent

Fig. 11

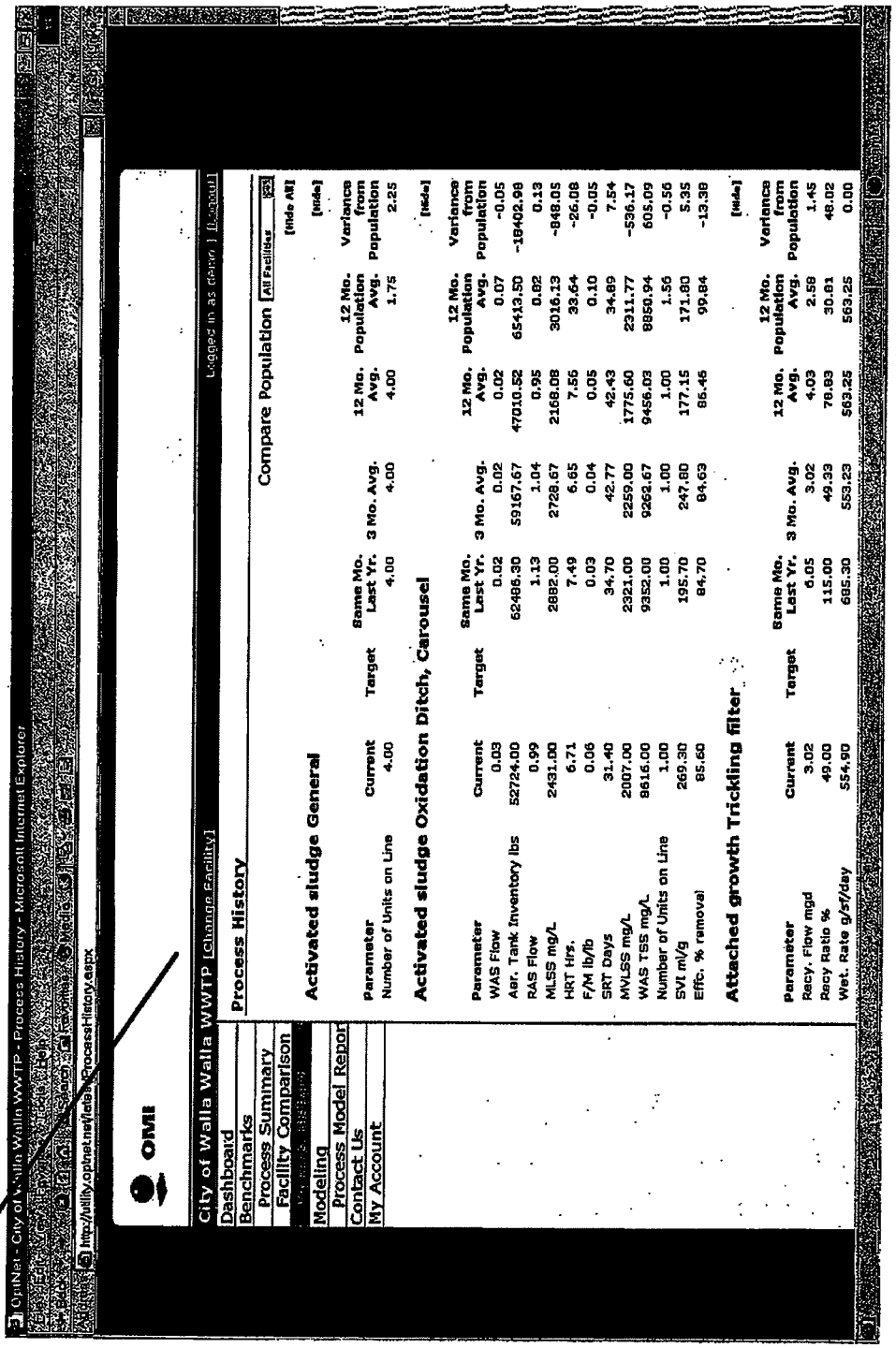

1200
OMI
City of Walla Walla WWTP [change facility]
Logged in as demo [logout]
Dashboard
Benchmarks
Process Summary
Facility Comparison
Modeling
Process Model Repor
Contact Us
My Account
Process History
Compare Population
All Facilities
[Hide All]
Activated sludge General
[Hide]
Parameter Current Target Same Mo. Last Yr. 3 Mo. Avg. 12 Mo. Avg. 12 Mo. Population Avg. Variance from Population
Number of Units on Line 4.00 4.00 4.00 4.00 4.00 1.75 2.25
Activated sludge Oxidation Ditch, Carousel
[Hide]
Parameter Current Target Same Mo. Last Yr. 3 Mo. Avg. 12 Mo. Avg. 12 Mo. Population Avg. Variance from Population
WAS Flow 0.03 0.02 0.02 0.02 0.07 -0.05
Aer. Tank Inventory lbs 52724.00 62486.30 59167.67 47010.52 65413.50 -18402.98
RAS Flow 0.99 1.13 1.04 0.95 0.82 0.13
MLSS mg/L 2431.00 2882.00 2728.67 2168.08 3016.13 -848.05
HRT Hrs. 6.71 7.49 6.65 7.56 33.64 -26.08
F/M lb/lb 0.06 0.03 0.04 0.05 0.10 -0.05
SRT Days 31.40 34.70 42.77 42.43 34.89 7.54
MVLSS mg/L 2007.00 2321.00 2259.00 1775.60 2311.77 -536.17
WAS TSS mg/L 8616.00 9352.00 9262.67 9456.03 8850.94 605.09
Number of Units on Line 1.00 1.00 1.00 1.00 1.56 -0.56
SVI ml/g 269.30 195.70 247.80 177.15 171.80 5.35
Effc. % removal 85.60 84.70 84.63 86.46 99.84 -13.38
Attached growth Trickling filter
[Hide]
Parameter Current Target Same Mo. Last Yr. 3 Mo. Avg. 12 Mo. Avg. 12 Mo. Population Avg. Variance from Population
Recy. Flow mgd 3.02 6.05 3.02 4.03 2.58 1.45
Recy Ratio % 49.00 115.00 49.33 78.83 30.81 48.02
Wet. Rate g/sf/day 554.90 685.30 553.23 563.25 563.25 0.00

Fig. 12

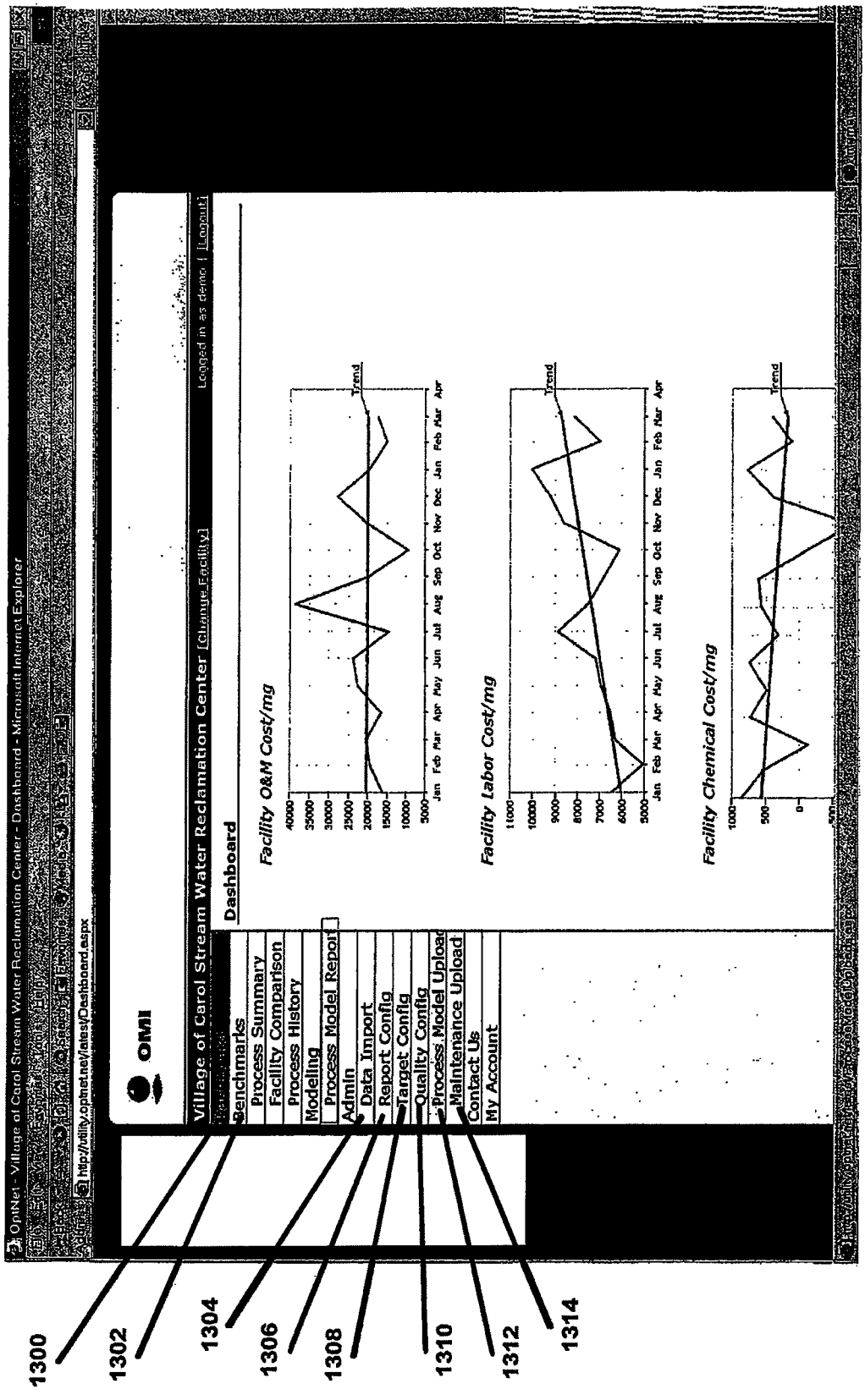

OMI
Village of Carol Stream Water Reclamation Center [Change Facility]
Logged in as demo | [Logout]
Dashboard
Benchmarks
Process Summary
Facility Comparison
Process History
Modeling
Process Model Report
Admin
Data Import
Report Config
Target Config
Quality Config
Process Model Upload
Maintenance Upload
Contact Us
My Account
Facility O&M Cost/mg
Facility Labor Cost/mg
Facility Chemical Cost/mg
Trend
1300
1302
1304
1306
1308
1310
1312
1314

Fig. 13

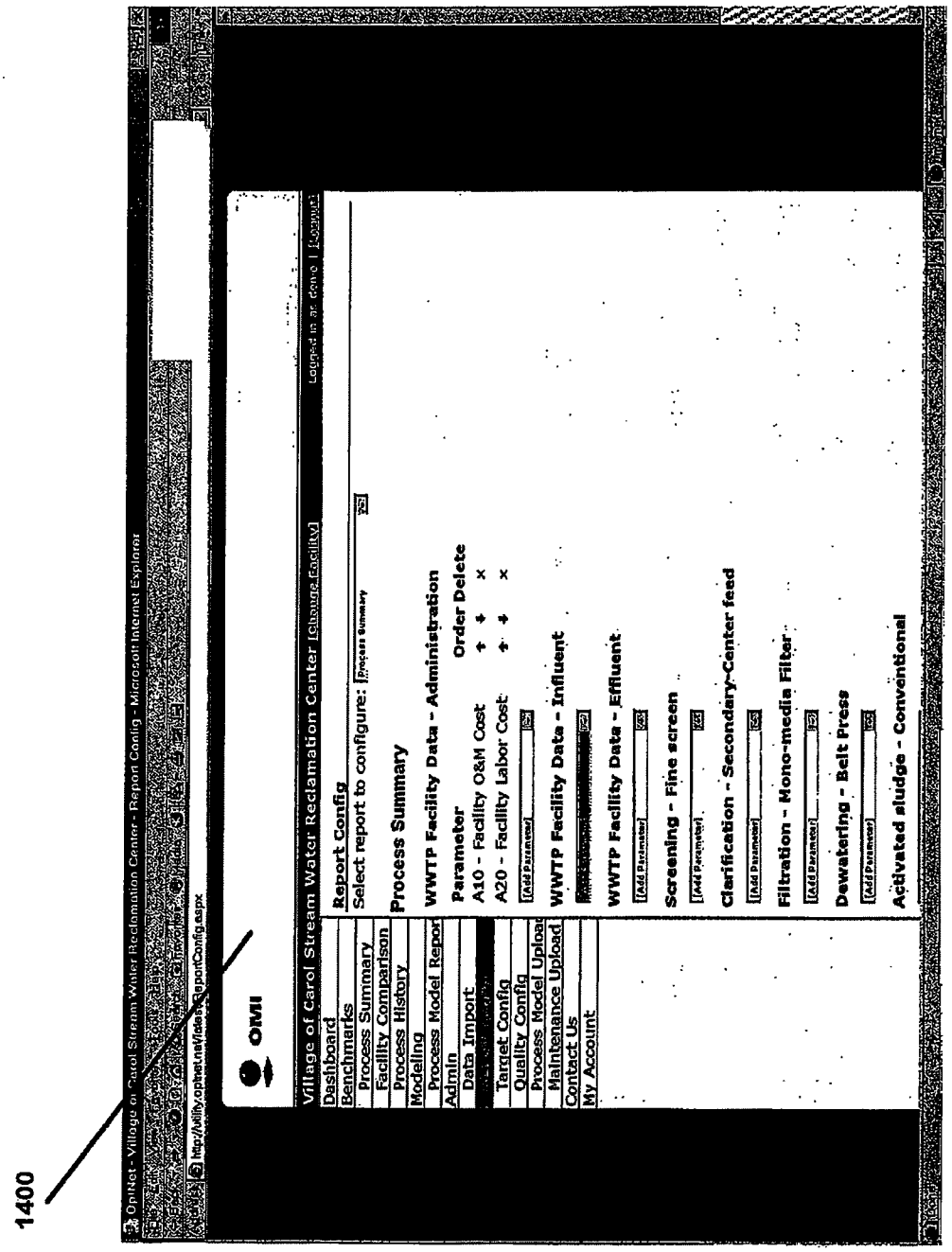

1400
OMI
Village of Carol Stream Water Reclamation Center [Change Facility]
Logged in as demo | Logout
Dashboard
Benchmarks
Process Summary
Facility Comparison
Process History
Modeling
Process Model Repor
Admin
Data Import
Target Config
Quality Config
Process Model Uploa
Maintenance Upload
Contact Us
My Account
Report Config
Select report to configure:
Process Summary
Process Summary
WWTP Facility Data - Administration
Parameter
Order Delete
A10 - Facility O&M Cost
A20 - Facility Labor Cost
[Add Parameter]
WWTP Facility Data - Influent
WWTP Facility Data - Effluent
[Add Parameter]
Screening - Fine screen
[Add Parameter]
Clarification - Secondary-Center feed
[Add Parameter]
Filtration - Mono-media Filter
[Add Parameter]
Dewatering - Belt Press
[Add Parameter]
Activated sludge - Conventional

Fig. 14a

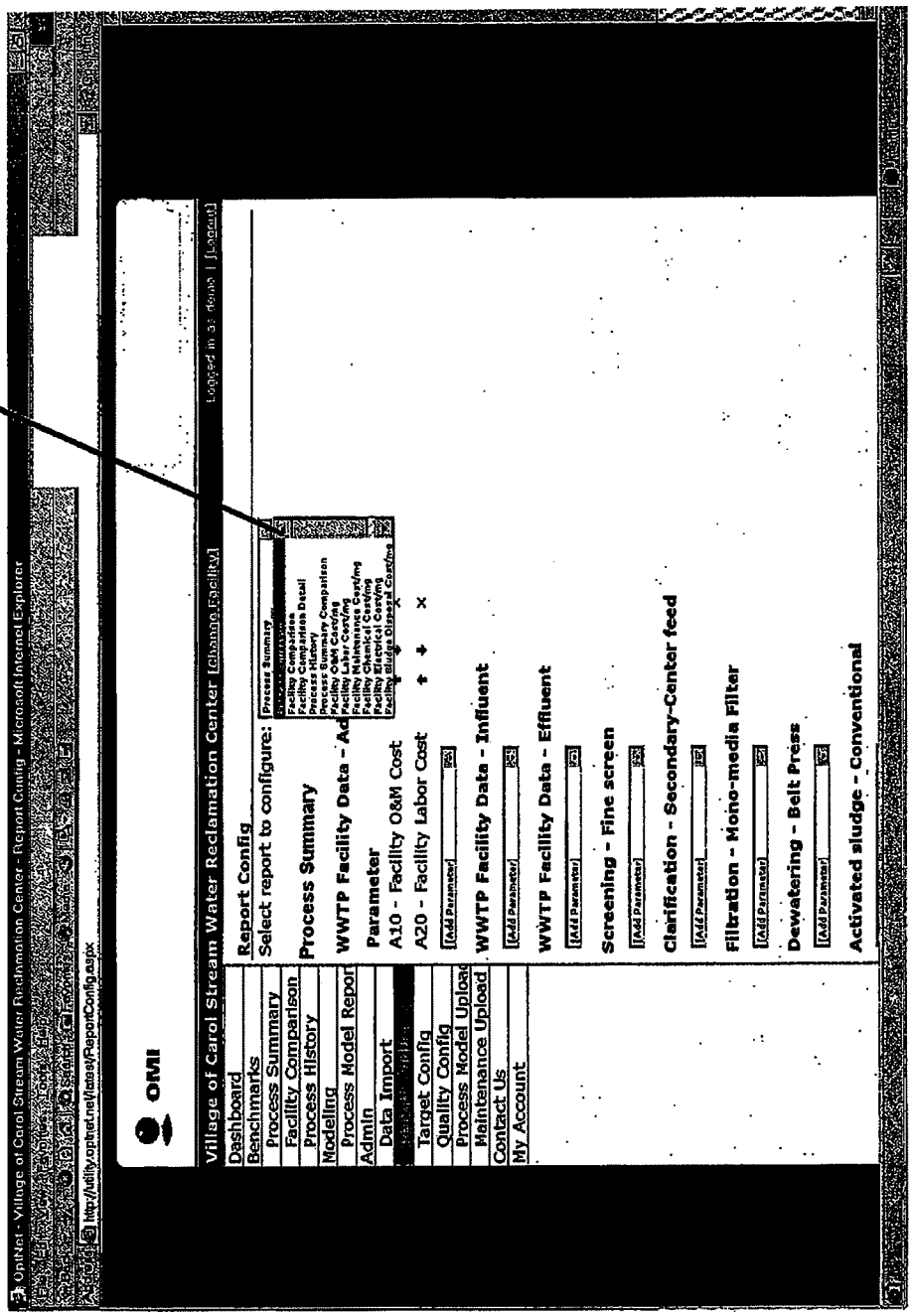

1402
OptNet - Village of Carol Stream Water Reclamation Center - Report Config - Microsoft Internet Explorer
OMI
Village of Carol Stream Water Reclamation Center [changing Facility]
Logged in as demo | [Logout]
Dashboard
Benchmarks
Process Summary
Facility Comparison
Process History
Modeling
Process Model Report
Admin
Data Import
Target Config
Quality Config
Process Model Upload
Maintenance Upload
Contact Us
My Account
Report Config
Select report to configure:
Process Summary
Process Summary
WWTP Facility Data - Ad
Parameter
A10 - Facility O&M Cost
A20 - Facility Labor Cost
[Add Parameter]
WWTP Facility Data - Influent
[Add Parameter]
WWTP Facility Data - Effluent
[Add Parameter]
Screening - Fine screen
[Add Parameter]
Clarification - Secondary-Center feed
[Add Parameter]
Filtration - Mono-media Filter
[Add Parameter]
Dewatering - Belt Press
[Add Parameter]
Activated sludge - Conventional

Fig. 14b

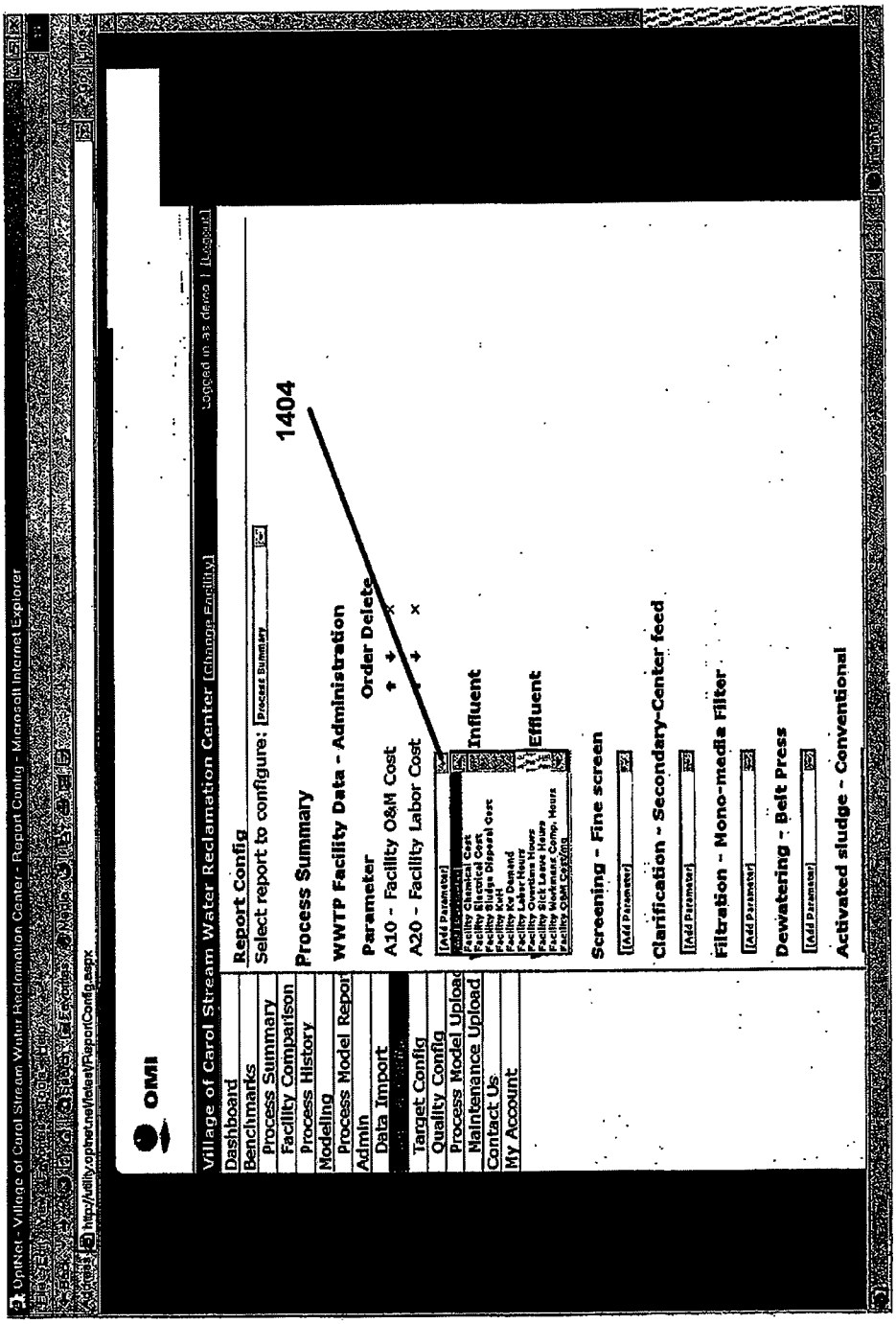

UniNet - Village of Carol Stream Water Reclamation Center - Report Config - Microsoft Internet Explorer
http://utility.opnet.net/Uninet/ReportConfig.aspx
OMI
Village of Carol Stream Water Reclamation Center [Change Facility]
Logged in as demo | [Logout]
Dashboard
Benchmarks
Process Summary
Facility Comparison
Process History
Modeling
Process Model Report
Admin
Data Import
Target Config
Quality Config
Process Model Upload
Maintenance Upload
Contact Us
My Account
Report Config
Select report to configure: Process Summary
Process Summary
WWTP Facility Data - Administration
Parameter
Order Delete
A10 - Facility O&M Cost
A20 - Facility Labor Cost
[Add Parameter]
Influent
Effluent
Screening - Fine screen
[Add Parameter]
Clarification - Secondary-Center feed
[Add Parameter]
Filtration - Mono-media Filter
[Add Parameter]
Dewatering - Belt Press
[Add Parameter]
Activated sludge - Conventional
1404

Fig. 14c

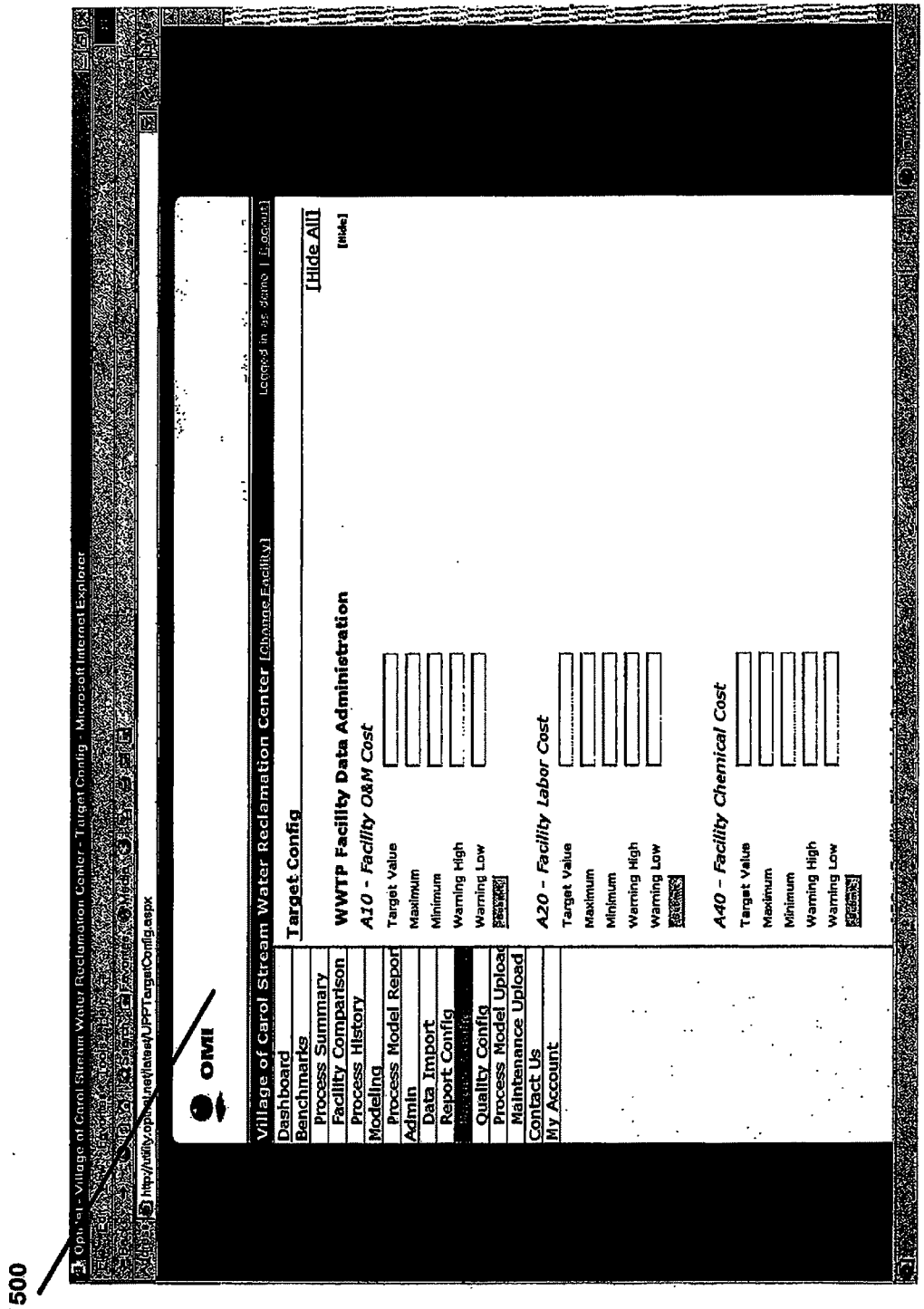

1500
OMI
Village of Carol Stream Water Reclamation Center [Change Facility]
Logged in as demo | [Logout]
Dashboard
Benchmarks
Process Summary
Facility Comparison
Process History
Modeling
Process Model Repor
Admin
Data Import
Report Config
Quality Config
Process Model Upload
Maintenance Upload
Contact Us
My Account
Target Config
[Hide All]
WWTP Facility Data Administration
A10 - Facility O&M Cost
[Hide]
Target Value
Maximum
Minimum
Warning High
Warning Low
Update
A20 - Facility Labor Cost
Target Value
Maximum
Minimum
Warning High
Warning Low
Update
A40 - Facility Chemical Cost
Target Value
Maximum
Minimum
Warning High
Warning Low
Update

Fig. 15

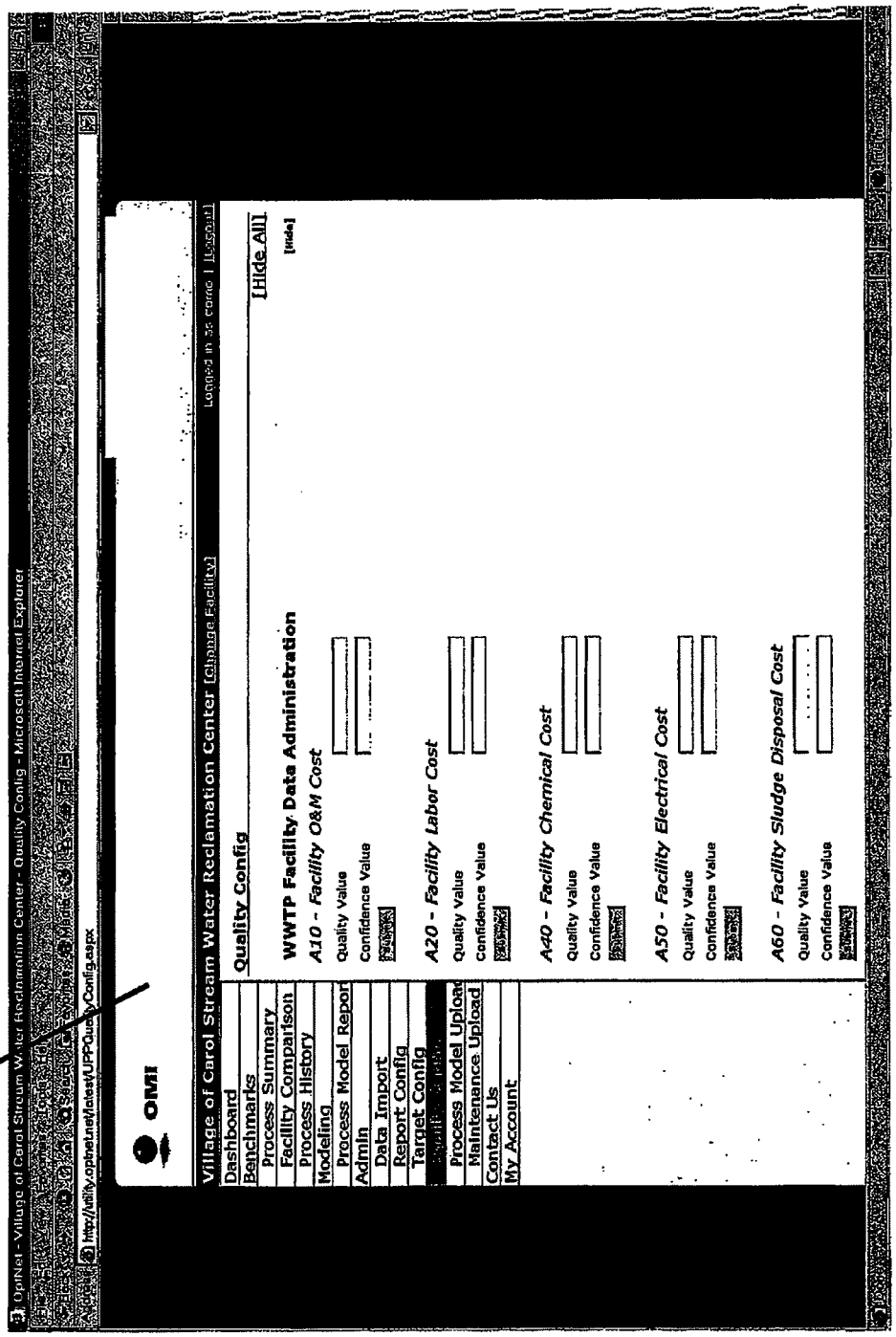

1600
OMI
Village of Carol Stream Water Reclamation Center [Change Facility]
Logged in as corde | [Logout]
Dashboard
Benchmarks
Process Summary
Facility Comparison
Process History
Modeling
Process Model Report
Admin
Data Import
Report Config
Target Config
Process Model Upload
Maintenance Upload
Contact Us
My Account
Quality Config
[Hide All]
WWTP Facility Data Administration
[hide]
A10 - Facility O&M Cost
Quality Value
Confidence Value
Submit
A20 - Facility Labor Cost
Quality Value
Confidence Value
Submit
A40 - Facility Chemical Cost
Quality Value
Confidence Value
Submit
A50 - Facility Electrical Cost
Quality Value
Confidence Value
Submit
A60 - Facility Sludge Disposal Cost
Quality Value
Confidence Value
Submit

Fig. 16

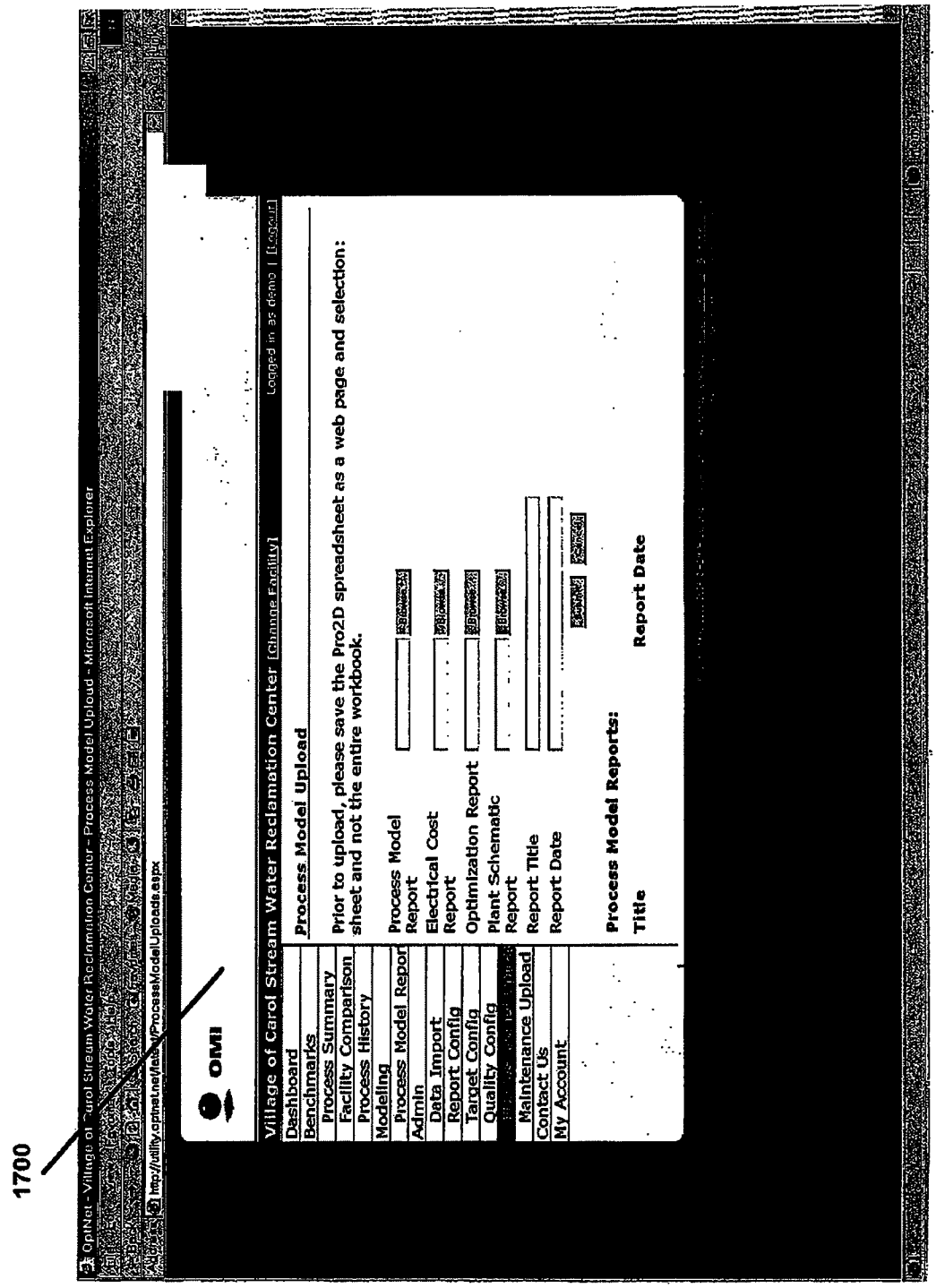

1700
OptNet - Village of Carol Stream Water Reclamation Center - Process Model Upload - Microsoft Internet Explorer
OMI
Village of Carol Stream Water Reclamation Center [Change Facility]
Logged in as demo | [Logout]
Dashboard
Benchmarks
Process Summary
Facility Comparison
Process History
Modelling
Process Model Report
Admin
Data Import
Report Config
Target Config
Quality Config
Maintenance Upload
Contact Us
My Account
Process Model Upload
Prior to upload, please save the Pro2D spreadsheet as a web page and selection: sheet and not the entire workbook.
Process Model Report
Electrical Cost Report
Optimization Report
Plant Schematic Report
Report Title
Report Date
Process Model Reports:
Title
Report Date

Fig. 17

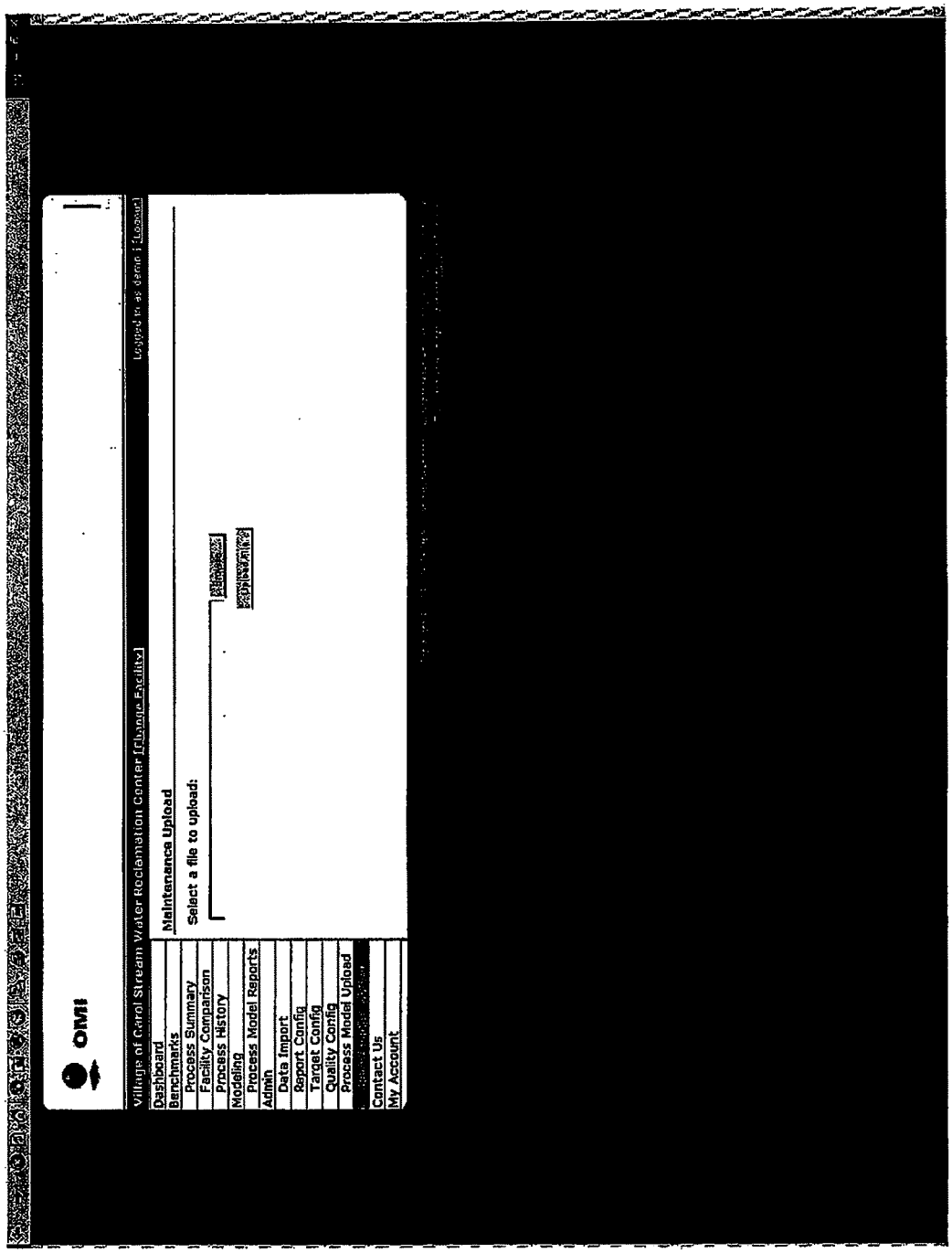

OMI
Village of Carol Stream Water Reclamation Center [Change Facility]
Logged in as demo1 [Logout]
Dashboard
Benchmarks
Process Summary
Facility Comparison
Process History
Modeling
Process Model Reports
Admin
Data Import
Report Config
Target Config
Quality Config
Process Model Upload
Contact Us
My Account
Maintenance Upload
Select a file to upload:

Fig. 18