

Search System for Source Factories/Facilities & Water Quality Simulation for Chemical Contamination

Scope of the System

Appropriate
Countermeasures can
be taken only if

we understand what kind
of /how much chemicals
are used/existing in the
river basin

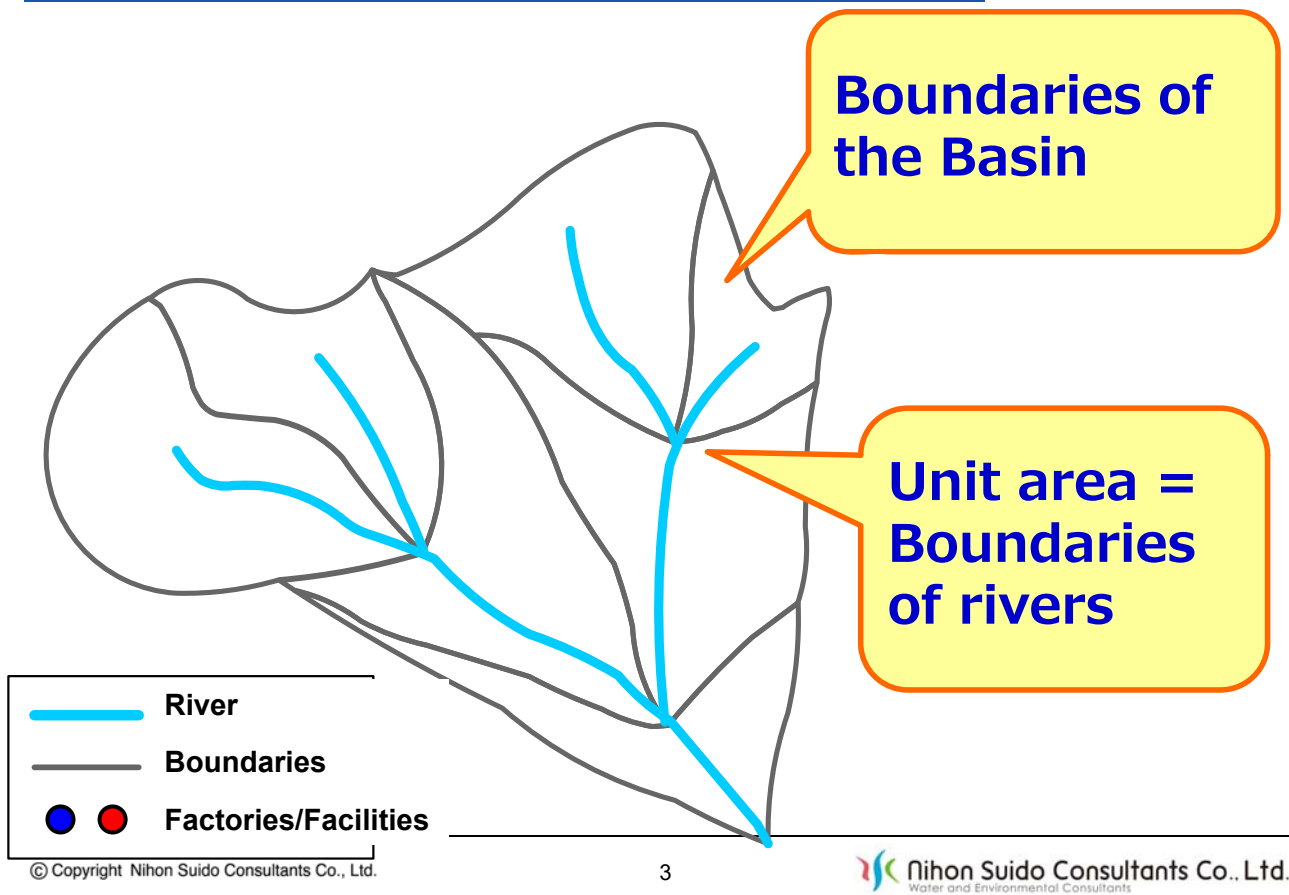
When factories and
facilities which uses
certain chemicals are
registered Nationally



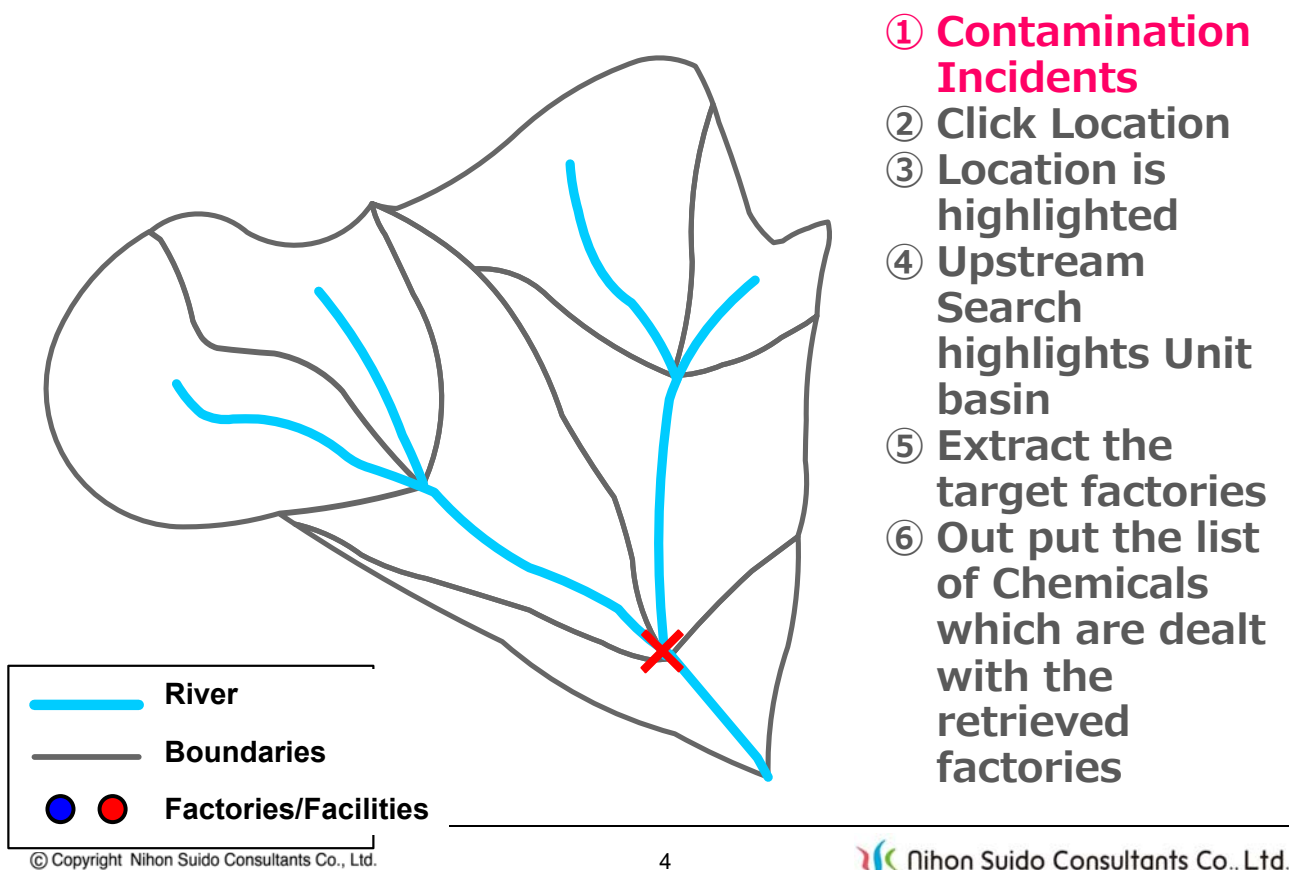
The screenshot shows the PRTR Information Field website interface. At the top, it says "PRTRインフォメーション広場" and includes navigation links for "事業者の皆さまへ", "個別事業所のデータ", "集計結果", "PRTRとは", "PRTR目安箱", "資料集", and "リンク". Below the header, there is a main text block explaining the PRTR Information Field. It states that PRTR is a system for managing chemical substances that are hazardous and diverse, and that the PRTR Information Field provides information on the registration status of facilities and the results of the PRTR survey. There are four main sections with icons: "事業者の皆さまへ" (For business operators), "集計結果 データを見る" (View aggregated data), "PRTRデータ 地図上表示システム" (Map display system for PRTR data), and "PRTRとは" (What is PRTR?). Each section has a brief description of its function.

Searching system for
water quality incidents
are very effective to
take appropriate
countermeasures

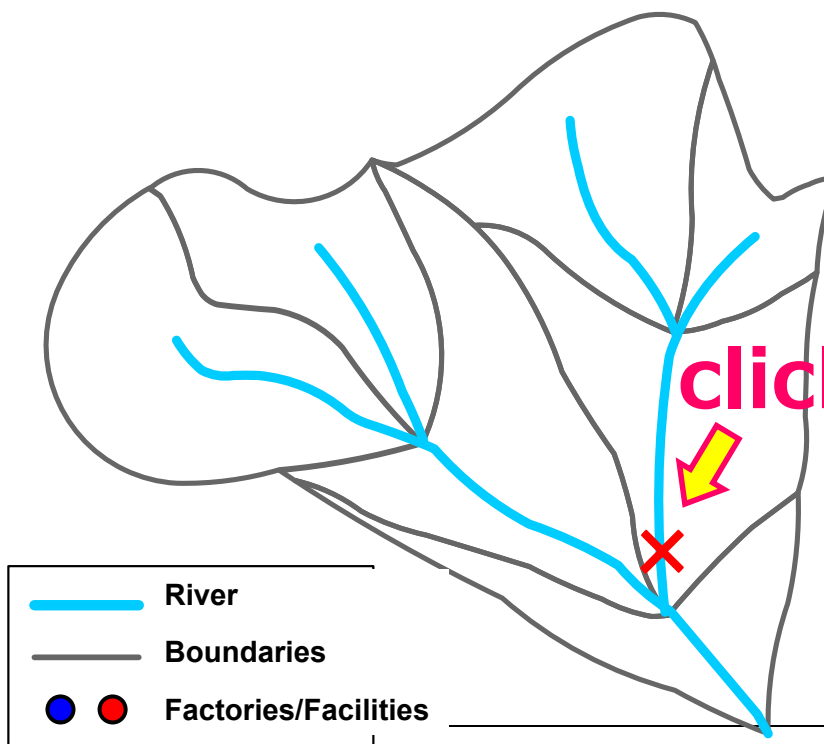
Concept: How to Search Source Factories/Facilities?



Concept: How to Search Source Factories/Facilities?



Concept: How to Search Source Factories/Facilities?



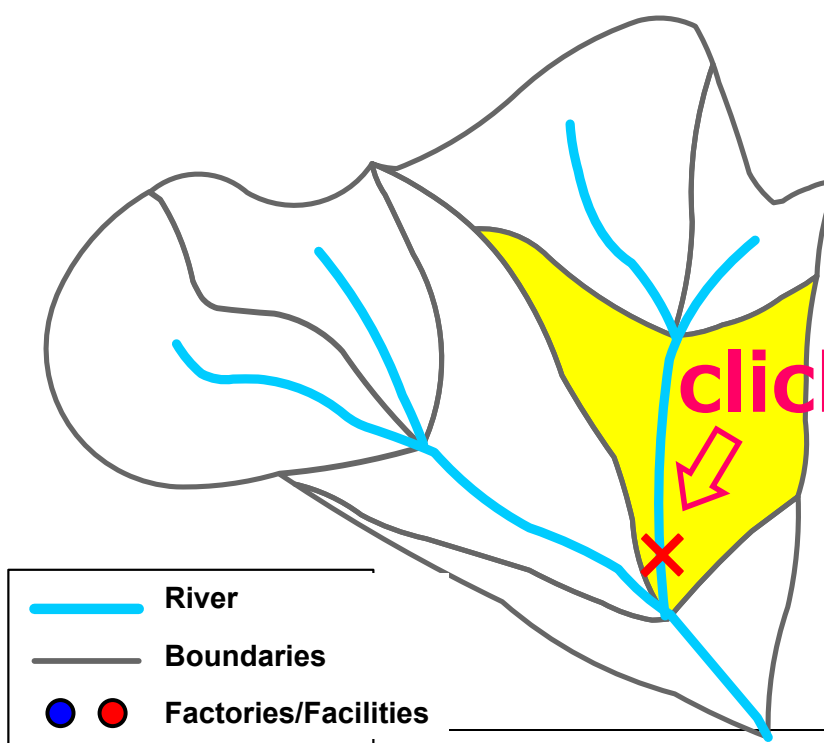
© Copyright Nihon Suido Consultants Co., Ltd.

5

Nihon Suido Consultants Co., Ltd.
Water and Environmental Consultants

- ① Contamination Incidents
- ② **Click Location**
- ③ Location is highlighted
- ④ Upstream Search highlights Unit basin
- ⑤ Extract the target factories
- ⑥ Out put the list of Chemicals which are dealt with the retrieved factories

Concept: How to Search Source Factories/Facilities?



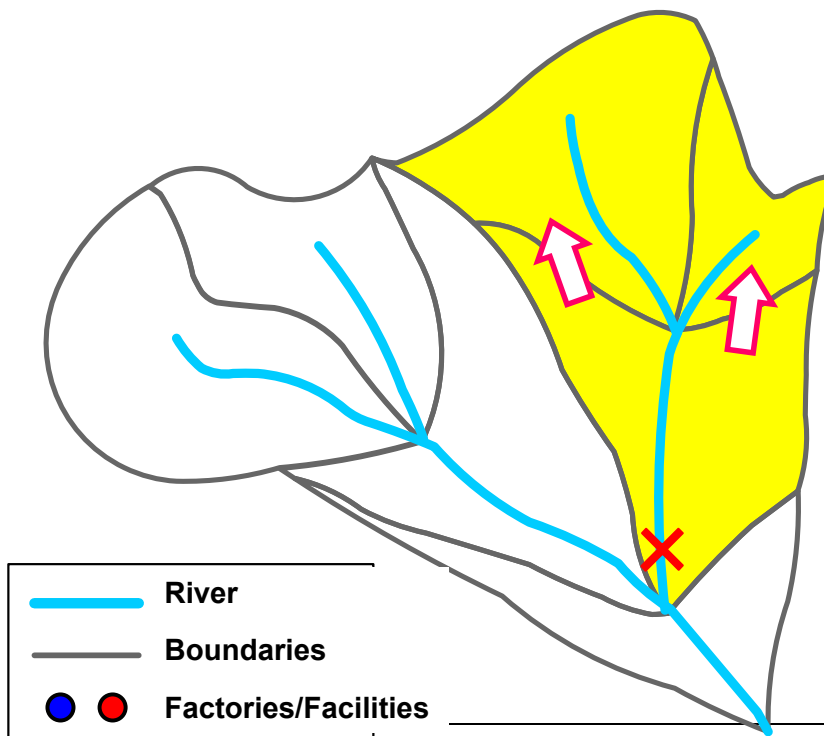
© Copyright Nihon Suido Consultants Co., Ltd.

6

Nihon Suido Consultants Co., Ltd.
Water and Environmental Consultants

- ① Contamination Incidents
- ② Click Location
- ③ **Location is highlighted**
- ④ Upstream Search highlights Unit basin
- ⑤ Extract the target factories
- ⑥ Out put the list of Chemicals which are dealt with the retrieved factories

Concept: How to Search Source Factories/Facilities?



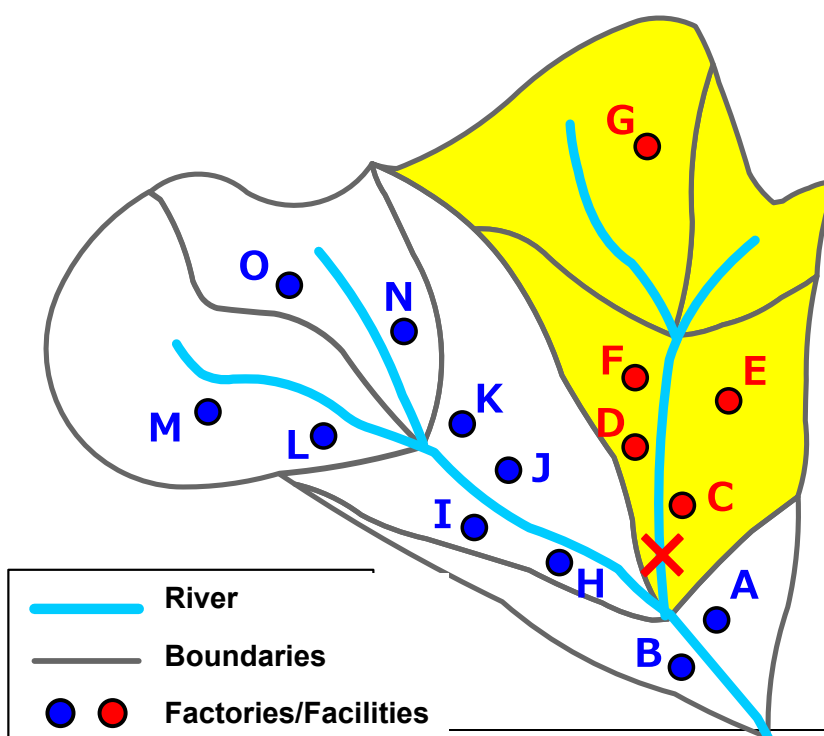
© Copyright Nihon Suido Consultants Co., Ltd.

7

Nihon Suido Consultants Co., Ltd.
Water and Environmental Consultants

- ① Contamination Incidents
- ② Click Location
- ③ Location is highlighted
- ④ **Upstream Search highlights Unit basin**
- ⑤ Extract the target factories
- ⑥ Out put the list of Chemicals which are dealt with the retrieved factories

Concept: How to Search Source Factories/Facilities?



© Copyright Nihon Suido Consultants Co., Ltd.

8

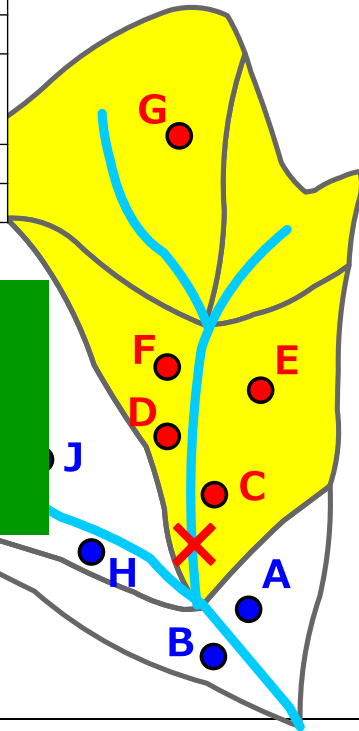
Nihon Suido Consultants Co., Ltd.
Water and Environmental Consultants

- ① Contamination Incidents
- ② Click Location
- ③ Location is highlighted
- ④ Upstream Search highlights Unit basin
- ⑤ **Extract the target factories**
- ⑥ Out put the list of Chemicals which are dealt with the retrieved factories

Concept: How to Search Source Factories/Facilities?

ID	Chemicals	Amount
C	Zinc	10.2
D	Chloroform	0.3
D	HMT	5.3
E	Tri-chloroethilan e	3.3
F	Benzene	0.8
G	Zinc	3.7

Capable for search any location



- ① Contamination Incidents
- ② Click Location
- ③ Location is highlighted
- ④ Upstream Search highlights Unit basin
- ⑤ Extract the target factories
- ⑥ Out put the list of Chemicals which are dealt with the retrieved factories

— River
— Boundaries
● ● Factories/Facilities

© Copyright Nihon Suido Consultants Co., Ltd.

① Selection of Unit Basin

"Search Upstream" Button

Click Contamination detected location: Then candidate source factories/facilities in unit basin are indicated

click!

② Upstream Search

**Roll over mouse:
Then Name/Address
of factories/facilities
are indicated**

**"Search Factories"
Button**

**All factories which is
upstream from the
incident location are
indicated**

© Copy Ltd.

③ Water Quality Simulation for Incidents

