## Comparison of Data Management Systems

## DRAFT Rev 04/09/2015

|  | **Warehouse/Archive****Management Decisions** | **Desk top vs. Web based**  | **Mapping/Graphing** | **Data Upload/Data Download** | **Manage QA/QC data** | **Link to Reports** | **Personnel** | **Cost** | **Types of data** |
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| EIM | Legacy system for Ecology. Warehouse of good quality data is its strength. Ability to use data easily for decision making is limited to certain functions. Customization would be difficult. My EIM tool has some calculations to compare with regulatory standards.  | Web based. Access to outside users possible with an account. Data is uploaded to system and checked before acceptance into EIM | Has map function. Map used for identifying sampling locations. Also map search capabilities.Does not display concentrations or graphing on the fly. | Yes or upload. Requires account and validation by Ecology. Laboratories can provide compatible EDDs (very helpful for submitters).Easy text/map search; downloads to .csv filesCan import/export with 3rd party software and then ArcMap. | Raw data best. Congener calculations not included.Does not keep laboratory QA/QC data | Yes. Links to reports from ECY, and TCP 3rd party reports; also EAGL grants under development. | 1.Data upload (Ecology or with and account)2. Ecology acceptance of data.Included in EAP projects. Some FTE needed for other projects. | Free to use. | EAP dataGeneral Studies.Does not link to permit database.  |
| EQUIS | Can license to use their server space for data warehouse or have on your own server.Good for management decision making. Can order customized functions based on need. City of Seattle uses for source tracing: about 1100 sample locations and 75-100 analytes. Aroclor and Dioxin data. |  Web based.Licensing covers “users” and “lookers”. Has the reputation of being the top database of its type.  | Can use with ArcMap to plot data.Graphing functions available. | Module available to upload to EIM. Can take time for uploaded data to post on EIM.Laboratories can provide compatible EDDs | Yes. Can apply reporting algorithms to do different blank calculations based on need. This is very useful. |  | 0.25 FTE (City of Seattle). | ~$60,000 initially~ $12,600 depending on number and type of licenses | Wide variety of data. Seattle’s data is stormwater, sediment for a variety of constituents.  |

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| DRBC | TO BE COMPLETED(Rachel McCrae) |  |  |  |  |  |  |  |  |
| SFEI | TO BE COMPLETED(Adriane Borgias) |  |  |  |  |  |  |  |  |
| LimnoTech Access DB TO BE COMPLETED(Tim Towey) | Contains data downloaded from EIM and other places. Also has stored discharge data, climate, flow, and water data as well as the USGS gauge data. Also has the ERTS database. Primary use is warehousimg | Desk Top | Have done in the past. Currently has tables linking to reports. Does not have post processing, mapping, or graphing tools. | Was complied in summer of 2013. Would need to be reformatted in order to upload to EIM. Discharger data needs the most work in this respect. Would need to know how to use Access to download as well as the query tools.  | Could be added based on EIM templates.  |  |  |  |  |
| Open Source Custom System TO BE COMPLETED(Tim Towey) | Open source system based on SQL server. Flexibility to customize.Could be developed as an expansion of the Access database that was already compiled.  | Web Based |  |  |  |  | Requires support to develop and manage in addition to data upload.  | Costs involved to develop system.  |  |