

The Benefits of Data Management Software

*Presented by:
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Data Management Software

- Definition
- Types
- What to Look For
- How to Choose

What is **Data Management** Software?



Data Management Software

Data Management Software can be defined as an application that acts as a central repository for all your operational data, which provides for data collection, manipulation and storage, process control calculations, trending, analyses, industry and regulatory reporting.

Types of Data Management Software

- Spreadsheets
- Databases
- Commercial Off-the-Shelf Software (COTS)
- Agency-Provided / Web-Based Solution
- Custom Application Development

Advantages of Data Management Software

- Instant access to current and historical lab, operations and maintenance data
- Time savings, trending and analysis
- Standardize company-wide data

What to look
for in data
management
Software



What to look for:

- **Current Technology**
- Security
- Auditing
- Standardization of Data

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Program Security

- Users/passwords
- Logon security
- Data permissions

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- Current Technology
- Security
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- **Standardization of Data**

How to Choose?

- Asses Your Needs
- What are your Goals and Outcomes?
- Cost and ROI
- What to expect

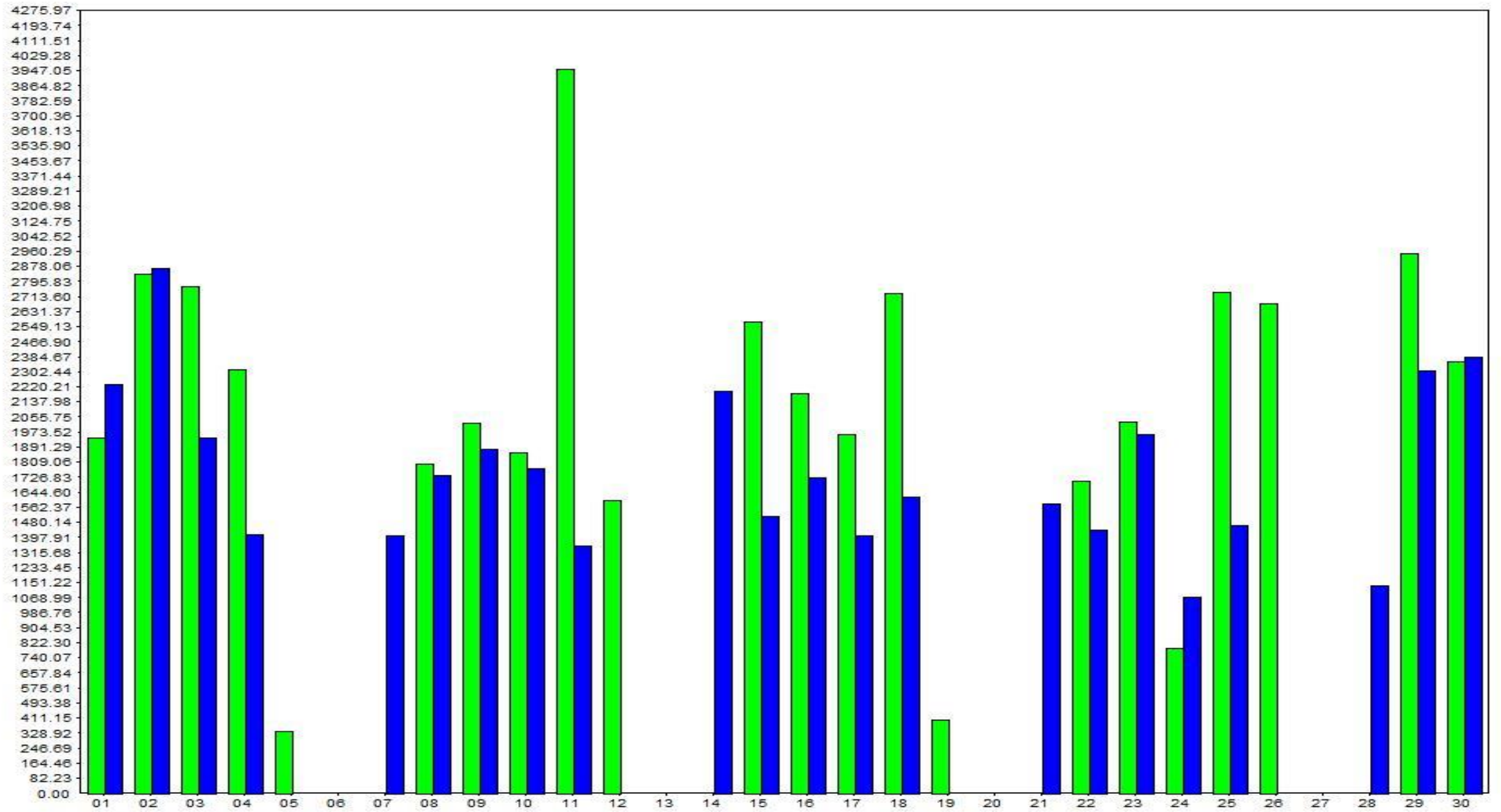
Assessing Your **Needs**

- **Data collection and storage**
- Calculated Data
- Graphing
- Industry and regulatory reporting

Assessing Your Needs

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Butterball BOD Comparison



Assessing Your Needs

- Data collection and storage
- Loading calculations
- Graphing
- **Industry and regulatory reporting**

RES SM001 - Lift Station on N side
 RES - Renewable Environmental Solutions, LLC

Parameter	Date	Value
Oil Grease Grv - Oil & Grease Freon Grav Recove		
Effective Date: January 2013 - Daily Maximum of 200 MG/L		
Violations	12/4/2013	380.000
Violations	12/5/2013	380.000
Violations	12/6/2013	380.000
Violations	12/7/2013	380.000
Violations	12/8/2013	380.000
Violations	12/9/2013	380.000
Violations	12/10/2013	380.000
Violations	12/11/2013	380.000
Violations	12/12/2013	380.000
Violations	12/13/2013	429.000
Violations	12/14/2013	429.000
Violations	12/15/2013	429.000
Violations	12/16/2013	429.000
Violations	12/17/2013	3380.000
Violations	12/18/2013	3380.000
Violations	12/19/2013	3380.000
Violations	12/20/2013	3380.000
Violations	12/21/2013	3380.000
Violations	12/22/2013	3380.000
Violations	12/23/2013	3380.000
Violations	12/24/2013	3380.000
Violations	12/25/2013	3380.000
Violations	12/26/2013	3380.000
Violations	12/27/2013	3380.000
Violations	12/28/2013	3380.000
Violations	12/29/2013	3380.000
Violations	12/30/2013	3380.000
Violations	12/31/2013	330.000
Violations	12/31/2013	3380.000
Effective Date: January 2013 - Monthly Average of 100 MG/L		
Violations	12/1/2013	948.290
pH - pH Standard Units		
Effective Date: January 2013 - Daily Maximum of 9 SU		
(No Violationss)		
Effective Date: January 2013 - Daily Minimum of 6 SU		
(No Violationss)		
~LBod 5 - Bod 5 Day		
Effective Date: January 2013 - Daily Maximum of 750 LBS		
(No Violationss)		
Effective Date: January 2013 - Monthly Average of 626 LBS		
(No Violationss)		
~LSolids TSS - Total Suspended Solids TSS		
Effective Date: January 2013 - Daily Maximum of 225 LBS		
(No Violationss)		
Effective Date: January 2013 - Monthly Average of 112 LBS		
(No Violationss)		

Goals

- Are you simply trying to meet reporting needs or determine your plant's operating efficiency?
- Do you wish to have a repository of data for historical and trending information and performance evaluation?
- Responsibility for data

Outcomes

Outcomes – What can you expect?

- User definable sampling points.
- Consistent nomenclature for test parameters, like a built-in list of Federal STORET codes.
- Quick access to enter new hourly or daily data and review historical data
- Easy transfer of data from the industry, LIMS program or treatment plant.

Outcomes – Cont'd

- A place to log operator notes pertaining to industrial information or to a specific test result.
- A way to write form letters and track them after they have been sent out.
- Ability to define limits for each industrial sampling point.
- Built-in formulas for calculating loadings and SNC.
- Ability to graph up to eight data points for up to a ten-year period.
- Besides the items listed above, you should also see a reduced amount of time needed to manage industry data that is sent to you.

Costs & ROI

- Solutions
- Time
- Return on Investment

Costs & ROI

- **Solution Types**
- Spreadsheet
- Database
- COTS SW
- Agency-Based
- Custom

Costs & ROI

- Time
- Spreadsheet
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Costs & ROI

- **Return On Investment**
- Are my reporting needs being met?
- Have there been any time savings?
- can I easily review multiple periods of data, provide more timely and concise submissions, make better decisions?
- Do I have the access I need to plant operational and maintenance data?

Utilities

- Backup/restore
- Context sensitive help
- Database repair/rebuild utilities included

A Full-Service Company

- Program setups
- Onsite installation and training
- Regional training, workshops
- Personalized, one-on-one technical support

Where to find it?

There are several off-the-shelf products on the market today. How do you find the one that is right for you? My suggestion is to ask your fellow operators. See what programs they use and how they like it. Another option is to do an internet search for software companies that have developed this type of software. Finally, go to environmental conferences, such as WEFTEC, and talk to the developers themselves.

Conclusion

In summary, use what is best for you. Look at your needs and record keeping requirements. Make sure what you select is going to be cost affective and easy to maintain. And remember, time-savings can add up to dollar savings.

Thank You!