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May 14, 2007

Savings Follow with Waterless Urinals

A survey by Texas A&M University, et al., asked 79 facility managers about their experiences using waterless urinal systems, such as those produced by Waterless Co., LCC. To report and explain their findings, the researchers created an “imaginary” elementary school with 300 males.

The university compared waterless urinals to those using one gallon of water per flush. The imaginary school was open 180 days per year, and each male used the eight urinals approximately twice per day.

These were the results:

- The water-based urinals used approximately 864,000 gallons of water per year.
- With water and sewer costs charged at \$5 per 1,000 gallons, these costs amounted to \$4,320 per urinal.
- As for maintenance, when using the EcoTrap® trap inserts from Waterless Co., replaced twice per year at \$6.50 per unit, the annual charge would be \$104.

Based on their findings, the school would save nearly 900,000 gallons of potable water per year using the waterless urinals. And, the difference between the cost of water and sewer charges vs. the cost of the trap inserts would result in more than a 90 percent savings. Further, the study assumed the conventional urinals would also need to be repaired during the course of the year, adding more to the maintenance costs.

The study concluded that widespread use of waterless urinals “can produce a domino effect of conservation. Since no water is required, water utilities will not need to treat and pump as much water...and the absence of flushing means that less wastewater is generated that requires treatment. Smaller quantities of water pumped leads to energy savings as well. Therefore, water is conserved as are resources needed to generate electricity.”



Request Details

Session Id:	v4zhbcqwuu5rzquzq01gpmam	Request Type:	GET
Time of Request:	6/15/2008 3:19:19 PM	Status Code:	200
Request Encoding:	Unicode (UTF-8)	Response Encoding:	Unicode (UTF-8)

Trace Information

Category Message

		From First(s)	From Last(s)
aspx.pageBegin Init		0.0001900	0.0001900
aspx.pageEnd Init		0.0131570	0.012967
Counting...			
Query:			
http://search.penton.com/xml/query?metadata=true&maxresults=0&qtype=kws&qs=Savings+Follow+with+Waterless+Urinals&incdocsets=141&sortby=rel&from=0&to=1		0.1941900	0.181033
Query: http://search.penton.com/xml/query?metadata=true&maxresults=0&qtype=sim&docid=44537193&incdocsets=141&sortby=rel&from=0&to=5		0.1960430	0.001853
TotalQueryCount: -1		3.0657102	0.869667
aspx.pageBegin PreRender		3.0657370	0.000028
aspx.pageEnd PreRender		3.0657540	0.000017
aspx.pageBegin SaveViewState		3.0666920	0.000937
aspx.pageEnd SaveViewState		3.0666990	0.000008
aspx.pageBegin Render		3.0667060	0.000006
aspx.pageEnd Render		3.0681800	0.001475

Control Tree

Control Id	Type	Render Size Bytes (including children)	Viewstate Size Bytes (excluding children)
__PAGE	ASP.ArticleDraw_aspx	31819	0
MPContainer	Wilson.MasterPages.MasterPage	31804	0
MPContainer_Template	ASP.Template_Main_ascx	0	0
ctl0	System.Web.UI.LiteralControl	158	0
LiteralTitle	System.Web.UI.WebControls.Literal	37	72
ctl1	System.Web.UI.LiteralControl	12	0
MPMetaTags	Wilson.MasterPages.ContentRegion	494	0
ctl2	System.Web.UI.LiteralControl	4	0
LiteralMetaDescription	System.Web.UI.WebControls.Literal	375	528
ctl3	System.Web.UI.LiteralControl	4	0
LiteralMetaKeywords	System.Web.UI.WebControls.Literal	108	168
ctl4	System.Web.UI.LiteralControl	3	0
ctl5	System.Web.UI.LiteralControl	188	0
MPOASOverrides	Wilson.MasterPages.ContentRegion	0	0
ctl6	System.Web.UI.ResourceBasedLiteralControl	3289	0
PlaceHolderRoadblock	System.Web.UI.WebControls.PlaceHolder	0	32

_ctl7	System.Web.UI.LiteralControl	43	0
Contentregion3	Wilson.MasterPages.ContentRegion	6536	0
_ctl8	System.Web.UI.ResourceBasedLiteralControl	1130	0
dcBanner	WebControls.Advertising.DoubleClick	796	0
_ctl9	System.Web.UI.ResourceBasedLiteralControl	4610	0
_ctl10	System.Web.UI.LiteralControl	26	0
MPBeginMiddleRegion	Wilson.MasterPages.ContentRegion	33	0
_ctl11	System.Web.UI.LiteralControl	33	0
_ctl12	System.Web.UI.LiteralControl	30	0
MPDynamicHeader	Wilson.MasterPages.ContentRegion	0	0
_ctl13	System.Web.UI.LiteralControl	5	0
MPCContent	Wilson.MasterPages.ContentRegion	8369	0
_ctl14	System.Web.UI.LiteralControl	167	0
litContentID	System.Web.UI.WebControls.Literal	5	28
_ctl15	System.Web.UI.LiteralControl	197	0
notify	System.Web.UI.HtmlControls.HtmlGenericControl	620	44
_ctl16	System.Web.UI.ResourceBasedLiteralControl	575	0
_ctl17	System.Web.UI.LiteralControl	6	0
articlex	System.Web.UI.HtmlControls.HtmlGenericControl	7350	44
_ctl18	System.Web.UI.LiteralControl	119	0
PHTools	System.Web.UI.WebControls.PlaceHolder	994	0
PrinterFriendlyControls	ASP.PrinterFriendly_Controls_ascx	994	0
_ctl19	System.Web.UI.LiteralControl	8	0
EmailAFriendControls	ASP.EmailAFriend_Controls_ascx	805	0
_ctl20	System.Web.UI.LiteralControl	36	0
PHReprints	System.Web.UI.WebControls.PlaceHolder	827	0
_ctl21	System.Web.UI.LiteralControl	13	0
ArticleIssue	System.Web.UI.HtmlControls.HtmlGenericControl	60	0
_ctl22	System.Web.UI.LiteralControl	8	0
litIssue	System.Web.UI.WebControls.Literal	12	40
_ctl23	System.Web.UI.LiteralControl	11	0
_ctl24	System.Web.UI.LiteralControl	70	0
litTitle	System.Web.UI.WebControls.Literal	37	72
_ctl25	System.Web.UI.LiteralControl	24	0
ArticleDeck	System.Web.UI.HtmlControls.HtmlGenericControl	0	32
_ctl26	System.Web.UI.LiteralControl	0	0
litDeck	System.Web.UI.WebControls.Literal	0	24
_ctl27	System.Web.UI.LiteralControl	0	0
_ctl28	System.Web.UI.LiteralControl	7	0
ArticleByLine	System.Web.UI.HtmlControls.HtmlGenericControl	0	32
_ctl29	System.Web.UI.LiteralControl	0	0
litByLine	System.Web.UI.WebControls.Literal	0	24
_ctl30	System.Web.UI.LiteralControl	190	0
LiteralPayload	System.Web.UI.WebControls.Literal	2102	2952
_ctl31	System.Web.UI.LiteralControl	36	0
ArticleThumbnailDiv	System.Web.UI.HtmlControls.HtmlGenericControl	0	32
_ctl32	System.Web.UI.LiteralControl	0	0
LabelThumbnails	System.Web.UI.WebControls.Label	0	0
_ctl33	System.Web.UI.LiteralControl	0	0
PlaceholderThumbnails	System.Web.UI.WebControls.PlaceHolder	0	0
_ctl34	System.Web.UI.LiteralControl	0	0
_ctl35	System.Web.UI.LiteralControl	167	0
PHFeedback	System.Web.UI.WebControls.PlaceHolder	1743	0
_ctl36	System.Web.UI.LiteralControl	53	0
FeedbackForm	ASP.FeedbackForm_ascx	1676	0
_ctl37	System.Web.UI.LiteralControl	14	0
_ctl38	System.Web.UI.LiteralControl	29	0
objSimilarArticles	ASP.ctrSimilarArticles_ascx	0	36

objSimilarArticles:DivPageDotted	System.Web.UI.HtmlControls.HtmlGenericControl	0	0
objSimilarArticles:_ctl0	System.Web.UI.LiteralControl	0	0
objSimilarArticles:DataListArticleList	System.Web.UI.WebControls.DataList	0	16
_ctl39	System.Web.UI.LiteralControl	12	0
_ctl40	System.Web.UI.LiteralControl	24	0
_ctl41	System.Web.UI.LiteralControl	5	0
MPDynamicFooter	Wilson.MasterPages.ContentRegion	0	0
_ctl42	System.Web.UI.LiteralControl	34	0
MPRightNav	Wilson.MasterPages.ContentRegion	47	0
_ctl43	System.Web.UI.LiteralControl	47	0
_ctl44	System.Web.UI.LiteralControl	34	0
MPRightNavHdr	Wilson.MasterPages.ContentRegion	0	0
_ctl45	System.Web.UI.LiteralControl	34	0
MPRightNavSky	Wilson.MasterPages.ContentRegion	866	0
_ctl46	System.Web.UI.LiteralControl	4	0
phSkyscraper	System.Web.UI.WebControls.PlaceHolder	794	0
_ctl47	System.Web.UI.LiteralControl	19	0
dc5	WebControls.Advertising.DoubleClick	762	0
_ctl48	System.Web.UI.LiteralControl	13	0
_ctl49	System.Web.UI.LiteralControl	68	0
_ctl50	System.Web.UI.LiteralControl	208	0
MPFooter	Wilson.MasterPages.ContentRegion	9659	0
MPGoogle	Wilson.MasterPages.ContentRegion	8833	0
_ctl51	System.Web.UI.LiteralControl	47	0
_ctl52	System.Web.UI.ResourceBasedLiteralControl	7887	0
_ctl53	System.Web.UI.ResourceBasedLiteralControl	899	0
_ctl54	System.Web.UI.LiteralControl	62	0
MPNone	Wilson.MasterPages.ContentRegion	11	0
_ctl55	System.Web.UI.LiteralControl	3	0
_ctl56	System.Web.UI.LiteralControl	3	0
_ctl57	System.Web.UI.LiteralControl	3	0
_ctl58	System.Web.UI.LiteralControl	2	0
_ctl59	System.Web.UI.LiteralControl	238	0
Omniture1	ASP.Omniture_ascx	1365	0
Omniture1:phPageNameDflt	System.Web.UI.WebControls.PlaceHolder	0	32
Omniture1:_ctl0	System.Web.UI.LiteralControl	0	0
Omniture1:phPageName	System.Web.UI.WebControls.PlaceHolder	55	0
Omniture1:phQuery	System.Web.UI.WebControls.PlaceHolder	0	32
Omniture1:phQueryCount	System.Web.UI.WebControls.PlaceHolder	0	32
Omniture1:phStoryByline	System.Web.UI.WebControls.PlaceHolder	0	32
Omniture1:phStoryIssueDate	System.Web.UI.WebControls.PlaceHolder	22	0
Omniture1:phCustom1	System.Web.UI.WebControls.PlaceHolder	0	32
Omniture1:phCustom2	System.Web.UI.WebControls.PlaceHolder	0	32
_ctl60	System.Web.UI.LiteralControl	21	0
_ctl61	System.Web.UI.LiteralControl	15	0

Application State

Application Key	Type	Value
IssueTypeID_GPRO	System.Int32	27
IssueTypeID_News	System.Int32	31
IssueTypeID_GPN	System.Int32	45
IssueTypeID_GPROSponProd	System.Int32	46
IssueTypeID_GPROSponCntnt	System.Int32	47
IssueTypeID_GPROWhitePapers	System.Int32	48
IssueTypeID_GPROMarketDatashet	System.Int32	49
NewsletterTypeID	System.Int32	28
ProductShowcaseTypeID	System.Int32	44

ContentBlockTypeID	System.Int32	21
TechnologiesTypeID	System.Int32	20
DepartmentCategoryTypeID	System.Int32	0
BasicDocset	System.Int32	141
DirectoryDocset	System.Int32	142
VerticalDocset	System.String	
BaseUrl	System.String	www.GovPro.com
SiteDescription	System.String	Welcome to GovPro.com
SiteName	System.String	GovPro
SiteID	System.Int32	500
SiteNo	System.Int32	500
QPSiteID	System.Int32	501
PublicEmail	System.String	webmaster@GovPro.com
OneColor	System.String	#BDD5FD
TwoColor	System.String	#E0E0E0
AdminEmail	System.String	tzavesky@penton.com
GeoGraphicSearch	System.Boolean	False
TradeNameDesc	System.String	Trade Names
ProductsDesc	System.String	Categories of Products
ShowOnlyCatsWithVendors	System.Boolean	True
ShowProdCounts	System.Boolean	True
MetaDescription	System.String	
MetaKeywords	System.String	
StartPage	System.String	Default.aspx
HotLinkOverride	System.String	Always
SiteUrl	System.String	www.GovPro.com
DirectoryPath	System.String	/Directory
CoDescriptionEnhancementNo	System.Int32	1015
300x300LogoEnhancementNo	System.Int32	1012
CoLogoEnhancementNo	System.Int32	1012
ExtendedInfoEnhancementNo	System.Int32	1175
FeaSuppEnhancementNo	System.Int32	1200
HideClientPages	System.String	No
TurnOffInlineAds	System.Int32	0
NewProductDeptList	System.String	
AllOtherDeptList	System.String	
ContentPath	System.String	/Content/Site500/
FileContentPath	System.String	D:\vol\PentonContent\Site500\

Cookies Collection

Name	Value	Size
ASP.NET_SessionId	v4zhbcqwuu5rzqzuq01gpmam	42

Headers Collection

Name	Value
Cache-Control	no-cache
Accept	application/vnd.fdf, application/vnd.adobe.xfdf, text/html, text/plain, image/gif, image/jpeg, application/pdf
Host	www.govpro.com
User-Agent	Mozilla/3.0 (compatible; WebCapture 2.0; Windows)
X-REWRITE-URL	/News/Article/66250/

Querystring Collection

Name	Value
HBC	News
NIL	False

Server Variables

Name	Value
ALL_HTTP	HTTP_CACHE_CONTROL:no-cache HTTP_ACCEPT:application/vnd.fdf, application/vnd.adobe.xfdf, text/html, text/plain, image/gif, image/jpeg, application/pdf
ALL_RAW	HTTP_HOST:www.govpro.com HTTP_USER_AGENT:Mozilla/3.0 (compatible; WebCapture 2.0; Windows) HTTP_X_REWRITE_URL:/News/Article/66250/ Cache-Control: no-cache Accept: application/vnd.fdf, application/vnd.adobe.xfdf, text/html, text/plain, image/gif, image/jpeg, application/pdf Host: www.govpro.com User-Agent: Mozilla/3.0 (compatible; WebCapture 2.0; Windows) X-REWRITE-URL: /News/Article/66250/
APPL_MD_PATH	/LM/W3SVC/1583160070/ROOT
APPL_PHYSICAL_PATH	D:\vol\GovPro\Live.net\
AUTH_TYPE	
AUTH_USER	
AUTH_PASSWORD	
LOGON_USER	
REMOTE_USER	
CERT_COOKIE	
CERT_FLAGS	
CERT_ISSUER	
CERT_KEYSIZ	
CERT_SECRETKEYSIZE	
CERT_SERIALNUMBER	
CERT_SERVER_ISSUER	
CERT_SERVER_SUBJECT	
CERT_SUBJECT	
CONTENT_LENGTH	0
CONTENT_TYPE	
GATEWAY_INTERFACE	CGI/1.1
HTTPS	off
HTTPS_KEYSIZ	
HTTPS_SECRETKEYSIZE	
HTTPS_SERVER_ISSUER	
HTTPS_SERVER_SUBJECT	
INSTANCE_ID	1583160070
INSTANCE_META_PATH	/LM/W3SVC/1583160070
LOCAL_ADDR	10.2.113.242
PATH_INFO	/ArticleDraw.aspx
PATH_TRANSLATED	D:\vol\GovPro\Live.net\ArticleDraw.aspx
QUERY_STRING	HBC=News&NIL=False&CID=66250&OASKey=
REMOTE_ADDR	192.150.10.200
REMOTE_HOST	192.150.10.200
REMOTE_PORT	23830
REQUEST_METHOD	GET
SCRIPT_NAME	/ArticleDraw.aspx
SERVER_NAME	www.govpro.com
SERVER_PORT	80
SERVER_PORT_SECURE	0
SERVER_PROTOCOL	HTTP/1.1
SERVER_SOFTWARE	Microsoft-IIS/6.0
URL	/ArticleDraw.aspx
HTTP_CACHE_CONTROL	no-cache
HTTP_ACCEPT	application/vnd.fdf, application/vnd.adobe.xfdf, text/html, text/plain, image/gif, image/jpeg, application/pdf
HTTP_HOST	www.govpro.com
HTTP_USER_AGENT	Mozilla/3.0 (compatible; WebCapture 2.0; Windows)
HTTP_X_REWRITE_URL	/News/Article/66250/