

INFRASTRUCTURE COMMITTEE MEETING  
Monday February 24, 2014  
6:00 P.M.

HAMPDEN TOWN OFFICE

A G E N D A

1. MINUTES OF 12/9/2013
2. Minutes of 1/27/2014
3. OLD BUSINESS
  - A. Transfer Station
    1. Adding Fridays to Construction/Demo weekends
    2. Increasing transfer decal fee from \$5 to \$20
    3. Creating a tiered sticker system for transfer station decals
    4. Swap Shop Use Permits
  - B. Backyard Composter Program 2014
4. NEW BUSINESS
  - A. Pool Entrance Roof Replacement
  - B. Timber Harvesting at Business Park
  - C. Flags/Christmas Decorations – Expense/Process Used
  - D. Recycling Program Changes
  - E. Public Works Diesel Tank Replacement
  - F. Snowblower attachment for sidewalk trackless
5. PUBLIC COMMENTS
6. COMMITTEE MEMBER COMMENTS

/

INFRASTRUCTURE COMMITTEE MEETING MINUTES  
Monday December 9, 2013

Attending:

Councilor William Shakespeare	Councilor Ivan McPike
Councilor Greg Sirois	Town Manager Susan Lessard
Councilor David Ryder	Regan Nichols, Reed's Brook Principal
Councilor Carol Duprey	Terry McAvoy, Resident
Councilor Tom Brann	State Rep. Brian Duprey

The meeting was opened at 6 p.m. by Chairman Shakespeare.

1. MINUTES OF 11/25/2013 – The minutes of the 11/25/13 meeting were reviewed and approved with no changes.
2. OLD BUSINESS
  - A. Discussion of School Resource Officer Grant – Councilor Sirois discussed information received (copy attached) at a meeting which he attended held on Monday, December 9th with Superintendent Lyons, Asst. Superintendent Genest, Principal Nichols, Principal Yehle, the district health coordinator, Councilor McPike, Town Manager Lessard, Sergeant Stewart, and Public Safety Director Joe Rogers. The purpose of the meeting was to discuss the proposed middle school resource officer position for the district in terms of need and financial impact. School personnel and the Superintendent expressed support for the position and indicated a potential commitment of up to 50% of the cost of the position to be funded by the District. The Superintendent also indicated that he would discuss the idea of sharing funding with the Town of Winterport so that the resource officer could serve both District middle schools. However, the District was not in a position to be able to guarantee the funding and would not be able to do so until their budget was prepared. Councilor McPike questioned the need for the position, since the District indicated that it had not included the request in prior budgets. Councilor Sirois expressed concern over the number of positions that the School District had cut in direct educational programs such as foreign languages and whether the resource officer position was more necessary than those types of programs. He indicated that he was not opposed to the idea of the position but that funding it was not a higher priority compared to other items. Principal Nichols indicated that she believed that the school administration was sincere in their plan to fund a portion of the position and that the needs of the district and its individual schools changed from year to year and that accepting this grant was an opportunity to fill an identified need with the use of less local dollars than would be necessary otherwise.

Councilors Duprey and Ryder indicated that they had not heard from anyone in support of the additional position – but had heard from a number of people, including those who attended the last Council meeting, who were in opposition,

primarily due to the cost. Councilor Sirois also indicated that he had discussed the subject with many people and only found one so far who was in support of it.

Councilor Brann spoke in support of the position due to his belief that the presence of an officer in the school would provide help for students in a more basic life-skills manner, and because the program had proved its success over a fifteen year time period at the high school level. Councilor Shakespeare spoke in support of the position due to his belief that an additional officer would complement the work already being done at the high school level and may have some chance of averting an intruder-type incident in the school should one ever occur.

The Town Manager answered questions related to the grant application process, financial impact of the decision, law enforcement authority when one community lies in another legal jurisdiction (Waldo County), and whether there would be a need for another police vehicle if the position were approved.

The Committee also discussed other options which may be available to the school in order to meet at least part of the need for another resource officer, which could include contracting with the Town or Penobscot County for an officer to spend so many hours a week or month in the middle school(s). Councilor Sirois asked the Town Manager to have the Public Safety Director provide additional information for the meeting on Monday relative to any cost savings/avoided costs for the department that would be realized if the position were filled.

Councilor Sirois also discussed the fact that he had attended a District Safety meeting and was impressed with the team of people and the level of expertise present. He intends to attend these monthly meetings.

Public Comment - Resident Terry McAvoy spoke in opposition to the grant for a number of reasons including his belief that the need is not present, the grant should not have been applied for without Council permission, another vehicle would be needed if the grant went forward, and the cost of it is too high over the four year period. Based on a previous comment by the Public Safety Director that having a cruiser parked at the high school may be having somewhat of a deterring effect on the possibility of intruders - State Representative Duprey suggested that parking a cruiser at each school may be a deterrent to someone considering some kind of negative act.

Motion by Councilor Duprey, seconded by Councilor Ryder to recommend to the full council that the School Resource Officer grant be returned. Vote 4 – 2 (Brann, Shakespeare). Motion carried.

3. NEW BUSINESS - None
4. PUBLIC COMMENTS - None
5. COMMITTEE MEMBER COMMENTS – Councilors Ryder, Shakespeare and Duprey requested that several items be included on the next agenda:
  - a. Adding Fridays to construction/demo weekends
  - b. Looking into timber harvesting at the business park in advance of any development so that the Town could realize funds from that activity
  - c. Increasing transfer station decal fees from \$5 to \$20
  - d. Creating a tiered sticker fee system so that those who utilized the brush/construction demo/metal disposal areas paid a higher amount

The meeting was adjourned at 7:35 p.m.

Respectfully submitted,

Susan Lessard  
Town Manager

INFRASTRUCTURE COMMITTEE MEETING MINUTES

Monday January 27, 2014

Attending:

- |                               |  |
|-------------------------------|--|
| Councilor David Ryder         | Councilor Ivan McPike                  |
| Councilor William Shakespeare | Public Works Director, Chip Swan       |
| Councilor Greg Sirois         | Terry McAvoy, Resident                 |
| Mayor Carol Duprey            | Janet Hughes, Resident                 |
| Councilor Tom Brann           | Recording Secretary, Rosemary Bezanson |

The meeting was opened at 6:03 p.m. by Chairman Ryder.

1. MINUTES OF 12/9/2013 –The minutes of the 12/9/13 meeting were amended to reflect changes in the Committee Member Comments: Councilor Shakespeare asked that comments made be named by the Councilor who made them. They will be amended and set aside for the next regular committee meeting for approval.
  
2. OLD BUSINESS
  - A. The leases for both the Kiwanis and Snowmobile Club were discussed. Councilor Brann stated that the tenants need to do their own repairs and maintenance to the buildings as the lease states.  
 Councilor Shakespeare asked why the Town is hanging on to these buildings why not hand them over or sell them.  
 Councilor Sirois asked if the Town wants to be landlords.  
 Councilor Bann asked about inspecting the buildings and insurance status. Does Susan have a copy of their insurance policies? The leases are over five years old.  
 Janet Hughes asked if the Town owned the VFW building. The VFW owns their building.  
 Terry McAvoy asked about an inventory of all Town owned buildings.  
 Councilor McPike asked if the lessees are maintaining the buildings and to check on insurance.  
 Councilor Ryder asked if an inspection of both buildings needs to be done.  
 Councilor Brann stated that they need to be in full compliance with their lease.  
  
 A motion was made for a renewal of both the Kiwanis and Snowmobile Club lease. (Councilor Brann).
  
3. NEW BUSINESS
  - A. Elm Street East Culvert. Photos of the culvert were passed out by Chip, the public works director. Chip explained the engineering firm, Woodard and Curran

gave an estimate cost of repair and would like the Infrastructure Committee to forward the proposed repair and cost to the Finance Committee.

Councilor McPike had some questions about the 5% administrative cost and the 15% design/Admin cost.

Janet Hughes explained the difference between the design costs and administrative costs.

Councilor Brann asked if the cost was coming out of the general operation, not part of the normal budget.

Councilor Ryder wanted to know if it could be done in 2 parts – part one the stabilization of the road and bank in the first year and come back in the second year and replace the culvert and fix the road.

Janet Hughes thought it would increase the cost; it would be more engineering cost plus increased material costs.

A motion by Councilor McPike seconded by Councilor Shakespeare to forward the item to the Finance Committee.

B. Route 1A State Paving/Sidewalk & Town Paving Schedule.

Chip explained that the sidewalk from Western Avenue to Kennebec Road is in rough shape it was built in 1987. They are proposing a concrete curb and sidewalk with the town's portion being paid from the paving budget. The BACTS project provides 80% federal funding, 10% State funded, and 10% municipality. That municipal cost would be \$124,145.26 which would come out of the paving budget 2013/2014. Chip would like the Infrastructure to recommend to Council for approval of the Town Manager to sign the MDOT document necessary to move the project forward.

A motion by Councilor Brann to refer this item to the Finance Committee, seconded by Councilor McPike. A suggestion was made to separate out the cost of paving roads and sidewalks.

Chip asked that this be recommended to full Council.

Councilor Brann rescinded this motion to refer to the Finance Committee, and made a motion to recommend to full Council with the second being Councilor McPike.

A list of the roads that will not be paved this year to do the sidewalk project was handed out by Chip.

Janet Hughes asked about the cost for the upcoming budget. Chip explained that the cost would come out of the current years' budget and the proposed roads that would have been paved will not get paved this year. Janet Hughes asked if the sidewalk in front of Irving, is getting repaved. Chip stated that it is not part of the project.

C. Public Works overtime and staffing.

Chip explained that the current years' budget is looking good with overtime, salting and sanding. He explained that half the town gets salted and the other half is sanded. Chip passed out a breakdown of what his budget looks like so far this year. (see attached: Public Works Salaries Budget) Also Chip handed out to Committee Members a breakdown of the miles of road the town plows and maintains. (see attached: Plow Routes)

Mayor Duprey asked about the overtime hours worked, and if they have worked 40 hours do they go home. Chip explained that they work their regular shift, maintaining equipment and getting ready for the next ice/snow event. Also there are hot spots that need attention.

Councilor Ryder asked about the employees at the transfer station and what do they work.

Chip explained that one employee works Wednesday to Sunday and one works Thursday to Monday.

Councilor Ryder asked if one employee could run the transfer station on the weekdays. Councilor Ryder stated he had several complaints about trucks running in the yard and not out plowing. People see trucks sitting idling in the yard while they are driving thru six inches of snow. He would like to see the trucks rolling if it is snowing.

Councilor McPike asked about the salt situation. Chip will call his supplier in the morning.

Mayor Duprey asked if there was something that could be done to keep the overtime down.

Councilor Shakespeare asked if it was different trucks idling at the town garage. Also stating they need to take breaks.

Councilor Ryder stated that he left for work following a town plow across Patterson Road, thru snow and the plow did not have his blade down.

Janet Hughes stated that she has driven thru snow on the interstate under similar conditions.

Councilor Brann asked about the meal tickets that the public works crew were given.

Chip stated that the town discontinued that this year, but the crew still takes breaks.

Terry McAvoy asked about activities he observed, he followed a town truck from 202 onto the Coldbrook Road, to Dysart's onto Emerson Mill then Manning Mill Road where they stopped to talk to a resident, then traveling onto Emerson Mill

Road to Western Avenue turning onto Canaan Road, with two people in the truck, he wanted to know what they were doing.

Chip explained that it was himself and the foreman checking on road conditions and hotspots, or problem areas.

✓ Mayor Dup<sup>889</sup>erty asked if the town does “trip ticks” or logs. You check out a vehicle, note the date, time and mileage then check in back in. That’s the way military does it.

Janet Hughes stated that overtime in plowing is necessary along with checking the roads.

Councilor Sirois asked if the overtime was just in the winter months.

Chip stated that for the most part yes, but we do have a sewer system that must be maintained and if we get a call from a resident that sewer is backing up the town responds, that may happen after normal hours so overtime would incur.

Councilor Sirois asked about the culvert on Elm Street. The estimate is from the engineering firm Woodard and Curran and would be put out to bid.

Chip stated that Woodard and Curran would put it out to bid on the town’s behalf.

4. PUBLIC COMMENTS – none

5. COMMITTEE MEMBER COMMENTS

Councilor Shakespeare asked about the safety of public works crew and their breaks. Councilor Brann stated that the meal tickets given to the plow crew was not a decision of the Council to terminate. He thinks it should be a Council decision. Councilor McPike sees a lot of micro-management going on; he is not a big believer in micro management.

Chip also stated that Route 69 is slated to be re-engineered (PM Rap project) in 2016, and Route 1A down Western Avenue to Route 202 re-paving (BACTS) project.

Councilor Brann asked about the sidewalk project from Sidney Blvd to the Mayo Road is it still at a standstill.

Chip stated that it is.

Meeting was adjourned at 7:35 p.m.

**PUBLIC WORKS SALARIES BUDGET**

TOTAL	\$595,038.00
AMT SPENT AS OF 1.27.14	\$348,373.76
AMT REMAINING	\$246,664.24
REMAINING YR	40.40%
REMAINING BUDGET	41.50%

**PLOW     ROUTES**

**TRUCK**

**MILES**

<b>ROUTE # 11</b>	<b>5.6</b>
<b>ROUTE # 13</b>	<b>11.8</b>
<b>ROUTE # 14</b>	<b>10.6</b>
<b>ROUTE # 15</b>	<b>10.6</b>
<b>ROUTE # 17</b>	<b>6.2</b>
<b>ROUTE # 18</b>	<b>5.1</b>
<b>ROUTE # 19</b>	<b>10.9</b>
<b>ROUTE # 20</b>	<b>5.4</b>
<b>ROUTE # 32</b>	<b>4.5</b>
<b>ROUTE # 35</b>	<b>0</b>

**TOTAL MILES**

**70.7**

PLOW ROUTE #11  
2013 FORD 550 ( SALT )  
4X4 Plow & Wing / HOPPER

PAUL WEAVER

ROAD NAME	MILES
MECAW ROAD	0.289
PENOBSCOT MEADOWS	0.246
CARY CIRCLE	0.511
COMMERCE COURT	0.06
NADINE'S WAY	0.11
MAYO ROAD	1.035
SEVERANCE STREET	0.09
CONSTITUTION AVENUE	0.505
LIBERTY DRIVE	0.174
INDEPENDENCE AVENUE	0.163
EVERGREEN DRIVE	0.515
SURREY LANE	0.38
SIDNEY BLVD	0.772
WILBUR DRIVE	0.131
MAIN TRAIL	0.567

TOTAL MILES 5.548

**FLOW**    **ROUTE# 13**                    **KEN**    **PORTER**  
**2008 STERLING ( SAND )**  
**FLOW & WING / FRONT DUMP**  
**ROAD NAME**                    **MILES**

<b>CANAAN ROAD</b>	<b>1.652</b>
<b>ARRON'S WAY</b>	<b>0.511</b>
<b>DEERHILL LANE</b>	<b>0.548</b>
<b>SHAWHILL ROAD</b>	<b>1.608</b>
<b>BOG ROAD</b>	<b>1.608</b>
<b>NORTH COUNTY ROAD</b>	<b>0.449</b>
<b>MILLER ROAD</b>	<b>0.648</b>
<b>FOWLER ROAD</b>	<b>0.775</b>
<b>POND ROAD</b>	<b>0.766</b>
<b>SHAWHILL BY-PASS</b>	<b>0.047</b>
<b>SAWYER ROAD</b>	<b>2.5</b>
<b>SAWYER ROAD (RUSHMORES</b>	<b>0.245</b>
<b>THOMAS ROAD</b>	<b>0.14</b>
<b>STETSON DRIVE</b>	<b>0.266</b>

**TOTAL MILES**                    **11.763**

PLOW ROUTE# 14  
2010 FREIGHTLINER ( SAND )  
PLOW & WING / FRONT DUMP  
ROAD NAME

ALBIE VALCOURT

MILES

PATTERSON ROAD	2.18
EMERSON MILL ROAD	2.005
PAPERMILL ROAD	0.817
MANNING MILL ROAD	0.605
EMERSON MILL ROAD SOUTH	0.136
EMERSON MILL RD NORTH	0.133
EMERSON MILL RD SOUTH	0.136
LEDGEWOOD DRIVE	0.155
DUNTON CIRCLE	1.07
SILVER DRIFT TRAIL	0.368
TOWN FARM ROAD	0.7
COUNTRY MEADOW DRIVE	0.2
GRIFFIN AVENUE	0.51
JEWELL DRIVE	0.087
HUGHES BLVD	0.611
BOWEN DRIVE	0.39
JOHN'S WAY	0.48

TOTAL MILES 10.583

PLOW ROUTE #15  
2012 INTERNATIONAL (SAND )  
PLOW & WING /HOPPER

DEVON PATTERSON

ROAD NAME	MILES
KENNEBEC FROM MONROE RD TO NEW	4.11
RT69 FROM KENN to WINTTL	1.152
EMERALD DRIVE	0.5431
WESSNETTE DRIVE	0.494
MONROE RD TO WINT	2.281
NORWAY DRIVE	0.25
LIBBY LANE	0.132
MEADOW FROM GARAGE TO KENN	0.741
ICHABOD LANE	0.855
TOTAL MILES	10.5581

PLOW ROUTE# 17  
2006 STERLING ( SALT )  
PLOW & WING / FRONT DUMP  
ROAD NAME

BRENT BABCOCK

MILES

COLDBROOK RD	2.329
RUTH AVENUE	0.38
EMERSON DRIVE	0.133
LINDSEY WAY	0.118
LASKEY LANE	0.385
JAY'S WAY	0.218
DAISEY LANE	0.355
CHARLES STREET	0.334
WILLIAMS STREET	0.188
GEORGE STREET	0.179
HORSESHOE LANE	0.195
SUNSET AVENUE	0.43
EDGEWOOD DRIVE	0.045
STONEBROOK ROAD	0.277
LINDEN STREET	0.044
WESTBROOK TERRACE	0.171
DUDLEY RD	0.158
OLD COLDBROOK RD	0.232

LOADER

TOTAL MILES 6.171



PLOW ROUTE# 19  
2011 INTERNATIONAL ( SAND )  
PLOW & WING / HOPPER  
ROAD NAME

KEN GETCHELL

MILES

KENNEBEC MONROE-MAYO RD	1.941
BACK WINTERPORT ROAD	2.787
BAKER ROAD	0.217
ROUTE 69 NEW TL TO KENNEBEC	2.453
MEADOW ROAD CANAAN TO 69	2.533
GRAYSTONE DRIVE	0.445
ACORN DRIVE	0.17
BUTTERNUT LANE	0.13
RAE'S WAY	0.265

TOTAL MILES

10.941

PLOW ROUTE #20  
2009 GMC 5500 ( SALT )  
PLOW & WING / HOPPER  
ROAD NAME

CHARLES NASH

	MILES
OLD COUNTY ROAD	2.128
TRIANGLE ROAD	0.131
HAMEL AVENUE	0.13
PERRY ROAD	0.24
COOLIDGE AVENUE	0.297
BALLFIELD ROAD	0.131
FRANCIS DRIVE	0.289
SOPHIE LANE	0.254
MOUNTAIN VIEW DRIVE	0.174
CARRIDGE LANE	0.094
PATTERSON STREET	0.263
WHEELDON HEIGHTS	0.273
NORTHERN AVENUE	0.207
SCHOOLHOUSE LANE	0.167
CHICKADEE LANE	0.347
SUNRISE LANE	0.242
TOTAL MILES	5.367

PLOW ROUTE #32 GARY GOODALE  
2012 FORD 350 ( SALT )  
4X4 PLOW / HOPPER  
ROAD NAME MILES

MUNICIPAL BUILDING	0
LIBRARY ROAD	0.413
CARVER ROAD	0.216
MARION DRIVE	0.334
RIVERVIEW ROAD	0.192
MARINA ROAD	0.26
KELLEY LANE	0.055
HILLSIDE DRIVE	0.173
SUMMIT AVENUE	0.048
POOL	0
BRYER LANE	0.046
KINCAID ROAD	0.162
BUS TURN AROUND	0
SWAN AVENUE	0.043
ORIENT AVENUE	0.065
DEWEY STREET	0.071
SHORT WHARF ROAD	0.158
TERRACE	2.218

TOTAL MILES 4.454

PLOW ROUTE  
 2003 TRACKLESS - SIDEWALKS  
 SNOWBLOWER / SANDER  
 ROAD NAME

DENNIS

RINES

MILES

LOCATION

FROM

TO

MILES

KENNEBEC RD	RTE 1A	END (MAYO RD)	0.824
WESTERN AVE	ROUTE 202	END (SIDNEY BLVD)	0.612
WESTERN AVE	ROUTE 202	RTE 1A	0.405
RTE 1A	WESTERN AVE	REED BROOK	0.619
RTE 1A	REED BROOK	KENNEBEC RD	0.243
RTE 1A	KENNEBEC RD	166 MN RD SO	0.286
RTE 1A	166 MN RD SO	DORTHIA DIX	0.303
RTE 1A	WESTERN AVE	ELM ST WEST	0.18
RTE 1A	IRIVING DRIVEWAY	CANOE CLUB RD	0.08
RTE 1A	ACADEMY DRIVE	BUS SHELTER	0.04
RTE 1A	MOUNTAINVIEW	BANGOR LINE	1.7
MAYO RD	KENNEBEC RD	WESTERN AVE	1.2
SUNRISE LANE	RTE1A	END	0.242
LIBRARY RD	RTE 1A	END	0.2

TOTAL MILES

6.934

**PLOW ROUTE**  
**2010 JOHN DEERE 5105M TRACTOR**  
**PLOW / BUCKET**  
**ROAD NAME**

**VICTOR SMITH**

**LOCATION**

**POOL PARKING LOT**  
**MUNICIPAL BUILDING**  
**SKEHAN CENTER**  
**OLD HA**

3-4-4

*Lee Residential Care, LLC*

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76 Laskey Lane, Hampden, ME 04444 • 207-862-2643 • Fax 207-862-2709

[Kmlrn8@tds.net](mailto:Kmlrn8@tds.net)

February 4, 2014

Hampden Town Office  
106 Western Avenue  
Hampden, ME 04444

Town Manager:

I am writing on behalf of Lee Residential Care consumers who reside in the town of Hampden. Lee Residential Care operates eight houses in Hampden, with two residents in each home, where we serve adults with cognitive and physical disabilities.

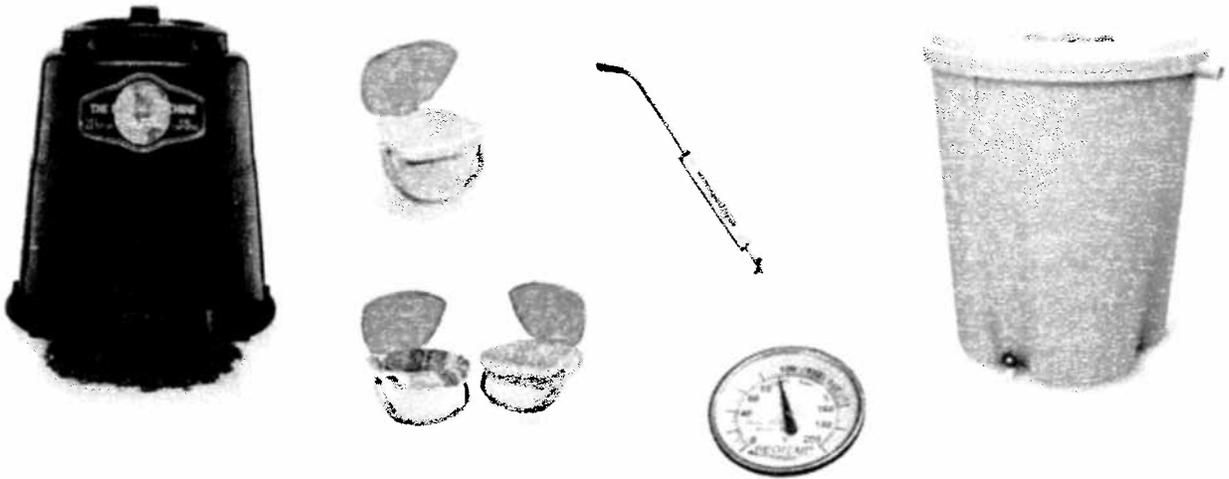
Last year the town of Hampden requested that we no longer have our consumers bring their residential waste to the transfer station. We have been renting a dumpster that all of our houses/residents are required to bring their trash and recyclable items to be discarded. It was our understanding that these young individuals could still access the recycle building if they chose to do so. There has been no issue or concern until recently this year, on two separate occasions, when our residents were told they did not have a transfer station sticker and therefore were unable to access the recycle building. All of our residents receive social security secondary to their impairments and have very little money of their own. They go to the transfer station to find gently used items or clothing that they may need or desire to have. Other times they go as part of a community inclusion activity. It is something that many of our consumers enjoy doing and they do not understand why they are no longer allowed to do it. The individuals we serve are legal residents of the town of Hampden and have rights, these rights include being part of their community and utilizing community resources.

Lee Residential Care is more than willing to purchase the transfer station passes for the consumers that use the recycle center. We will also continue to utilize our own dumpster for the residential waste. However, it is our request that the town allows our residents access to the transfer station for the purpose going to the recycle building.

Thank you,

Linden Lee, COO

3 B



## **MRRA Backyard Composting Campaign Participation Packet 2014**



*Sponsored by the*  
Maine Resource Recovery Association  
PO Box 1838  
Bangor, Maine 04402  
tel 207-942-6772  
fax 207-942-4017  
[www.mrra.net](http://www.mrra.net)

Sale Runs from Feb 1, 2014 to May 3, 2014, expect delivery by May 23, 2014



## Sample Press Release



**FOR IMMEDIATE RELEASE**

**Your Town or Organization's Name Here** to hold Backyard Compost Bin & Kitchen Waste Pail Sale for Earth Day 2014

**Your Town's Name Here, ME:** Tired of seeing all of those kitchen leftovers from preparing meals and snacks get thrown out in the trash or eaten by critters in your makeshift composting bin in the backyard? Here's your chance to turn those scraps into a rich soil amendment.

As part of Earth Day 2014 celebrations, **Your Town or Organization's Name Here** is participating in a statewide backyard composting bin sale. Through April 20, 2013 a home compost bin and how-to guide with a combined retail value of \$100 can be purchased for only **\$48.00** (tax included). The bin is black, has a 10 year warranty, and is made of 100% recycled plastic. It's approximately 35" high and 33" wide, or large enough for a family of five. New this year the Sure-Close kitchen scrap pail, for all your food scraps, are also available for sale at **\$7.00** each. The vented lid deters odors and fruit flies.

We are also happy to offer the wingdigger compost turner for a discounted price of **\$17.00**.

No compost area is complete without the 55 gallon rain barrel that can be used to collect valuable rain water for watering the garden and keeping the compost in the Earth Machine moist. The System rain barrel is available at the reduced price of **\$65.00**.

We also offer a 20 inch thermometer for your convenience in checking the inside temperature of your compost bin. It is also useful in checking temperature in an open pile of compost. It costs **\$20.00**

It's estimated that 25 percent of the average household's waste consists of yard trimmings and kitchen scraps which can be easily composted. **Your Town's Name Here** residents can save money for every ton of waste they compost because it is not shipped out of town for disposal.

Contact **Person's Name & Phone Number/Email Address Here** to learn more or obtain an order form. **Your Town Name Here** already recycles many of its disposables. Let's increase our recycling while helping our gardens grow!

End

Sponsored by the  
Maine Resource  
Recovery  
Association  
(MRRA)  
Tel (207) 942-6772  
Fax (207) 942-4017



## Use this Coordinator Checklist to help Plan your 2014 Compost Bin Sale

*Please Check When Completed!*

- ' **Determine Date, Time, and Location** for residents to pick up compost, barrels, turners and/or pails. The items will be delivered directly to you between May 19-23, 2014. **Order composters, turners and Kitchen pails in multiples of 20. Rain barrels 15 units and thermometers in units of 10.**
  
- ' **IMPORTANT! Complete the Participation Form and Customized Information Sheet** clearly and legibly & mail or fax to (207) 942-4017. Once this information is received, a customized master Order Form, Poster, Tracking Sheet, Press Release and Final Order Form will be created and sent to you.
  
- ' **Distribute Order Forms** to residents through mailings, local businesses, municipal buildings, etc. Consider asking Boy Scouts, Girl Scouts or other local groups to distribute the forms at the recycling center.
  
- ' **Hang Posters up** in high foot traffic areas throughout the community (such as grocery stores, town offices, recycling center, library, etc.) to promote the sale.
  
- ' **Display Samples in your town or recycling center** (see "Participation Form" to request) to help promote the sale and provide residents with a "real life" example of the bin and/or pail. Be sure to locate them in high traffic areas for better promotion.
  
- ' **Request a FREE CD** to promote the Composting Bin, "Earth Machine™", for play on local cable stations. Call the Maine Resource Recovery Association (207) 942-6772 to order.
  
- ' **Send the Press Release** to local daily and weekly newspapers that **cover your community's events**. Also, consider writing a "Letter to the Editor" to promote the sale.

Info Box A

## Urges You to Do Your Part for Earth Day 2014: Compost Your Yard and Food Waste!



**The Rain Barrel**  
55gal capacity,  
Great rain water  
collection for  
gardening



**Earth Machine Backyard Compost Bin**  
Converts grass, leaves and table scraps into  
an abundant supply of rich garden soil.  
Large 80 gallon capacity  
Easy, snap together assembly  
10 year warranty & Instruction Booklet  
Made of recycled plastic  
Assembled dimensions - 33"x35"

**SURE-CLOSE SCRAP PAIL**  
Attractive, easy to use, Hinged lid  
snaps securely to pail, 2 gallon  
capacity accommodates plates for  
"mess free" scraping!

**THE WINGDIGGER**  
Use this handy tool  
to turn your com-  
post periodically.

The REOTEMP Backyard Compost  
Thermometer with a 20" stem is designed  
for monitoring interior temperatures  
in a backyard sized compost bin.  
Range 0 to 200 F



Pick Up Your Ordered Items at:

Info Box B

Return the coupon below before May 3, 2014. All Sales Final

**HERE'S HOW TO GET STARTED!**

1. Clip & fill out this Order Form.
2. Mail it in with your check or money order.
3. Pick up your ordered items.

Item	Quantity	Unit Price	Subtotals
Compost Bin		\$48.00	
Sure-Close		\$7.00	
Wingdigger		\$17.00	
Rain Barrel		\$65.00	
Thermometer		\$20.00	
<b>TOTAL DUE</b>			

For more information call:

Info Box C

Name: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Address: \_\_\_\_\_ email address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Make checks payable to: MRRRA (Maine Resource Recovery Association) **ORDER FORM**

Mail to:

Info Box D





## MRRRA Compost Bin Sale Participation Form 2014

Please complete this form to participate in the Maine Backyard Compost Bin, Kitchen Pail, Thermometer, Wingdigger & Rain Barrel Sale.

I will participate in the 2014 Backyard Compost Bin Sale. I understand that I must order in multiples of 20 for compost bins, wingdiggers and Sure-close Kitchen pails. Rain Barrels in lots of 15 and Thermometers are sold in lots of 10 each.

Contact name: \_\_\_\_\_  
 Organization: \_\_\_\_\_  
 Telephone # \_\_\_\_\_ Fax # \_\_\_\_\_ email \_\_\_\_\_

I would like to receive samples at regular prices plus \$35 shipping. Samples take 2-4 weeks to arrive so please return this form ASAP. Send to shipping address below. Samples may be ordered until March 15, 2014.

Name: \_\_\_\_\_ Telephone where sample is delivered \_\_\_\_\_  
 Street Address: no PO Boxes please \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip code: \_\_\_\_\_

I will be selling the following checked items

Sample needed check here, free shipping

**Earth Machine Compost Bin** in quantities of 20

**Earth Machine** \$48.00

**Sure-Close Kitchen Pail** in quantities of 20

**Sure-Close Pail** \$7.00

**Wingdigger** compost turner in quantities of 20

**Wingdigger** \$17.00

**Rain Barrel** in quantities of 15

**Rain Barrel** \$65.00

**Thermometer** in quantities of 10

**Thermometer** \$20.00



**Shipping** \$35.00

total for all 5 items \$192.00

Total enclosed

Please return this completed form to Maine Resource Recovery Association  
 Fax 942-4017 or email victor.horton@mrra.net



**MRRA 2014 Final Order Form Due with funds by May 5, 2014**

**Delivery of items between May 19-23, 2014**

Organization: \_\_\_\_\_ Contact Person: \_\_\_\_\_ Telephone: \_\_\_\_\_

Delivery Address: \_\_\_\_\_

Item	Quantity	Price incl Tax	Amount
Earth Machine Compost Bin - quantities of 20		\$48.00	
Kitchen Pail - quantities of 20		\$7.00	
Wingdigger - quantities of 20		\$17.00	
Rain Barrel - quantities of 15		\$65.00	
Thermometer - quantities of 10		\$20.00	
Total Enclosed		Sales Tax included	
We will be responsible for the sales tax, please send us the updated price list less sales tax	Yes	No	

Maine Resource Recovery Association, PO Box 1838, Bangor, Maine 04402, tel 207-942-6772, fax 207-942-4017, www.mrra.net

If your organization will be responsible for the Maine Sales Tax please use the prices below and send us an updated Sales Tax Exemption form with your order.

Although a town or city is not liable for Maine 5.5% sales tax the general public is liable

Item	Quantity	Price incl Tax	Amount
Earth Machine Compost Bin - quantities of 20		\$45.50	
Kitchen Pail - quantities of 20		\$6.64	
Wingdigger - quantities of 20		\$16.11	
Rain Barrel - quantities of 15		\$61.61	
Thermometer - quantities of 10		\$18.96	
Total Enclosed		Sales Tax included	
We will be responsible for the sales tax and have included a sales tax exemption form	Yes	No	



## MARRA 2014 Compost Bin Sale Tracking Form

Organization: \_\_\_\_\_ Contact Person: \_\_\_\_\_ Telephone: \_\_\_\_\_

	Date	NAME	PHONE	CHECK NO	AMOUNT PAID	No. of Bins Ordered, need 20	No. of Kitchen Pails Ordered, need 20	No. of Wingdiggers Ordered, need 20	No. of Rain Barrels Ordered, need 15	No. of Thermometers Ordered, need 10
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
Sub total this page - Fill to bottom or gray area for shipment						\$48.00	\$7.00	\$20.00	\$65.00	\$17.00
						Earth Mac	Kitchen Pail	Wingedigger	Rain Barrel	Therm



Chip Swan <publicworks@hampdenmaine.gov>

---

## Hauling to Hancock

1 message

---

Victor Horton <victor.horton@mrta.net>

Mon, Jan 13, 2014 at 8:32 AM

To: Chip Swan <publicworks@hampdenmaine.gov>

Hi Chip

Once Bangor closes or before if you wish it. June 30, 2014.

We can haul your roll off containers to Hancock and return them for \$270/trip one at a time.

If you could plan 2 containers at once we could do them both for \$220 each saving \$50 per container.

If you would like to start doing boxboard and junkmail and school papers we could also set a can for \$1,000/year rental.

Price is not the best on that paper but cheaper than disposal I think.

Let me know if you want to discuss any of this sometime.

--

Victor Horton  
Executive Director  
Maine Resource Recovery Association  
PO Box 1838  
Bangor, Maine 04402  
Tel 207-942-6772  
Fax 207-942-4017  
WWW.MRRA.NET  
victor.horton@mrta.net



4E

160 Perry Road  
Bangor, Maine 04401  
T-207-217-6515  
T-1-888-485-3829  
FAX 207-217-6520

02/13/14 . VOID AFTER 30 DAYS

From:  
Chris Gaudet  
Estimating  
T-207-327-1154  
C-207-944-9887  
E-[cgaudet@gaftek.com](mailto:cgaudet@gaftek.com)



**QUOTE ACCEPTED**

\_\_\_\_\_  
AUTHORIZED SIGNATURE

\_\_\_\_\_  
PRINTED NAME

\_\_\_\_\_  
DATE

To:  
Chip Swan  
Hampden Public Works  
Hampden, ME  
T-207-862-2357  
C-207-659-4747  
E-[publicworks@hampdenmaine.gov](mailto:publicworks@hampdenmaine.gov)

**RE: AG tank Hampden Public Works.**

Gaftek is pleased to quote **\$10,485.00** to install (1) 2K DW/AG off road fuel tank at Hampden Public Works, Hampden, ME.

**SCOPE OF WORK:**

1. Supply and install (1) **Highland** 2000 gallon DW/AG tank, 64" diameter x 12' long, with factory white paint, (1) primary and (1) secondary emergency vent, and (4) each of the following tank decals; Off Road Fuel/1993/Combustible/No Smoking.
2. Supply and install (1) **Tuthill/Fill-rite** FR319VB bung mounted DSL pump w/digital gallons only display, 18' hose, and nozzle. **SEE ATTACHED**
3. Supply and install (1) **Morrison** 3.5 gallon AG spill containment bucket.
4. Supply and install (1) 2" **Scully** fill adaptor w/cap, (1) 2" vent whistle, (1) 2" galvanized steel vent riser pipe, and (1) 2" vent cap.
5. Supply and install (1) **OPW** 200TG float type product level gauge. **SEE ATTACHED**
6. Supply and install (1) **Krueger** tank interstitial monitor gauge.
7. Supply and install above grade conduit/wiring for the pump power.
8. Supply tank installer, electrician, all required manpower and equipment to complete the project.
9. Supply system start-up.

**NOTES:**

1. Gaftek will require 50% of the total cost (**\$5,242.50**) or PO# for the entire project amount to order components and the remainder including any change orders upon completion. Interest will be calculated at 1.5% interest monthly for invoices over 30 days old.
2. It is my understanding that any below grade conduit/wiring from the power supply to the tank area will be installed by Hampden PW. Gaftek will handle conduit/wiring from grade to the pump.

3. A load of fuel should be ordered as soon as the tank is in place for the system start-up.

**EXCLUSIONS:**

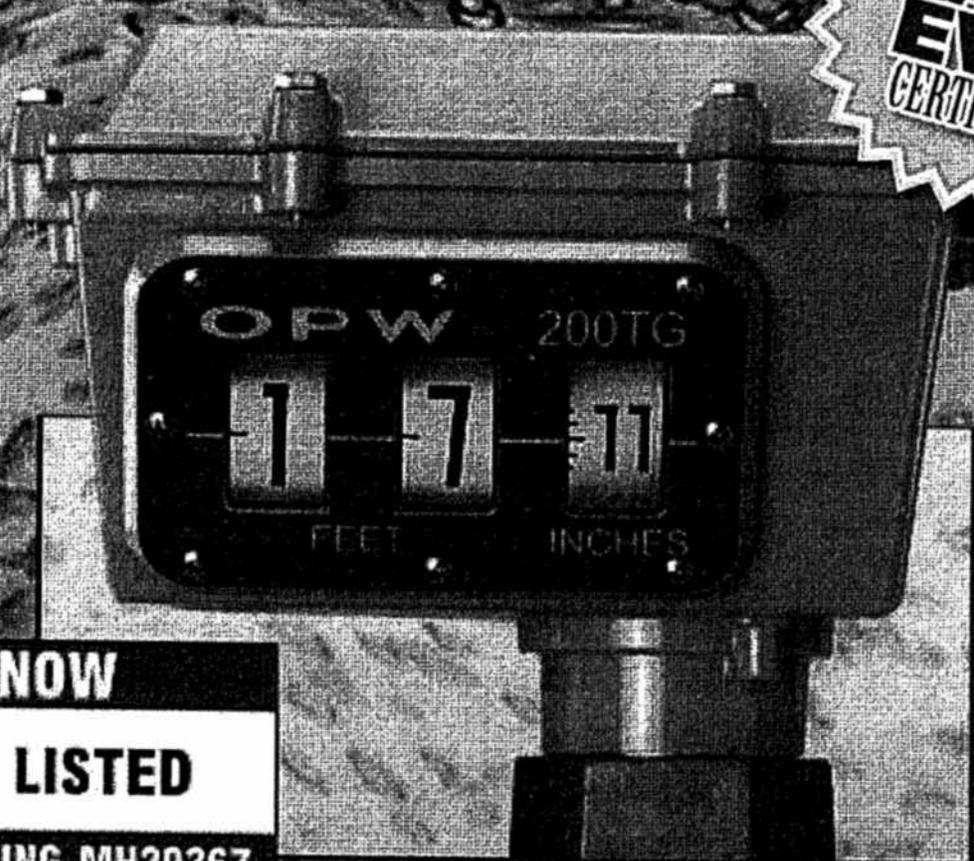
1. Any out of scope work.
2. Removal and disposal of any contamination.
3. Any applicable taxes.
4. Paving/loaming/seeding.
5. Concrete tank pad.
6. Removal of the existing AG tank.
7. Heavy equipment to off load and set the new tank in place.

Please contact me with any questions.

Chris Gaudet

BG RT JS.RL EG JM

# OPW 200TG AST MECHANICAL TANK GAUGE

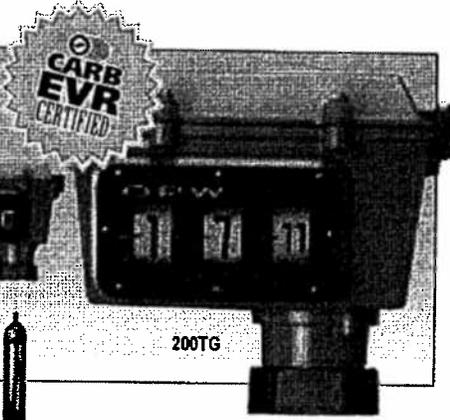


**NOW**  
**UL LISTED**  
**UL LISTING MH29367**

**OPW**  
A DOVER COMPANY

## Materials

- Enclosure: Powder-coated aluminum
- Swivel Base: Hard-coat aluminum
- Float: 304 stainless steel
- Lenses: Tempered borosilicate
- Gears: Acetal
- Gaskets & O-Rings: Nitrile\*
- All Hardware: Stainless steel
- Accuracy: + or - 2"



## Features

- ◆ **Vapor-Tight** – allows for standard tank pressure testing and sealing up to 25-psig (1.72 bar).
- ◆ **Angled Face** – improves visibility from ground on large diameter tanks. May be read easily up to 30 feet away (9.14 m).
- ◆ **Swivel Adaptor Base** – allows for 360° of rotation of gauge face for easy viewing wherever needed.
- ◆ **Easy Installation** – 2" NPT-threaded base reduces labor time, and comes standard with female thread. A H11421RS may be purchased for male threaded applications.
- ◆ **Corrosion-Resistant Construction** – powder-coated die cast-aluminum body assures for long service life in many fluids.
- ◆ **Drop Tube** – prevents float entanglement in the tank, and gives the gauge a more accurate reading when turbulence is present (Drop Tubes sold separately. They are recommended for use in tanks with high turbulence, and where other piping and structures inside the tank may cause entanglement).
- ◆ **Float Buoyancy** – designed to float in all approved fuels with a specific gravity of 0.65 and greater.
- ◆ **Tank Height** – unit designed for use on any horizontal or vertical aboveground tank up to 18 feet (5.5 m) in depth. Specials available upon request.
- ◆ **Numbering** – black letters on white background for ultimate contrast and better visibility. Characters stand over 1" (25 mm) tall.
- ◆ **Unit Measurement** – Can be purchased in metric units to read in meters, 1/10, 1/100, or in English units to read in feet and inches.
- ◆ **Maintenance** – No annual maintenance required.
- ◆ **U.S. Patent No.:** 6,523,404 - Other patents pending.
- ◆ **Compatible Fuels**– see chart on page 303.
- ◆ **Temperature Rating** – 120°F to -40°F (49°C to -40°C)

200TG Tank Gauge Instruction Sheet Order Number: H14912PA

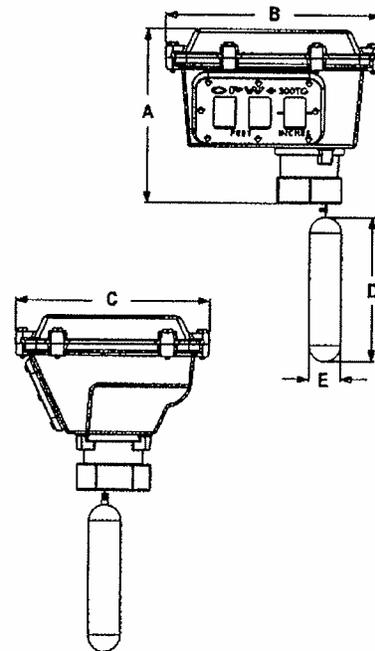
### (Ancillary Equipment)

## Ordering Specifications:

Product #	Description	lb.	kg
H11421RS	2" NPT Male x Male Nipple	1.5	0.68
<b>CARB CERTIFIED AST EQUIPMENT</b>			
200TG-ENG	English Unit Tank Gauge up to 18 ft.	7.75	3.52
200TG-ENG40	English Unit Tank Gauge - 40 ft.	7.75	3.52
200TG-MET	Metric Unit Tank Gauge up to 6 m	7.75	3.52
200TG-MET40	Metric Unit Tank Gauge - 10 m	7.75	3.52
61T-0208	2" Dia. x 8' Long Drop Tube	2.67	1.21
61T-0212	2" Dia. x 12' Long Drop Tube	4.00	1.81
61T-0216	2" Dia. x 16' Long Drop Tube	5.33	2.42

## OPW 200TG AST Mechanical Tank Gauge

The OPW 200TG Tank Gauge is designed for reading liquid levels in horizontal or vertical above ground storage tanks. The 200TG Tank Gauge provides an accurate numerical counter readout, eliminating the need for any on-site manual gauging.



### Dimensions:

	in.	cm
A	8%	21
B	10%	26
C	9	22.75
D	6%	17.25
E	1%	3.75

### Replacement Parts:

Part #	Description
C05165M	Float
H14358M	Lens
H14909M	Lid Gasket

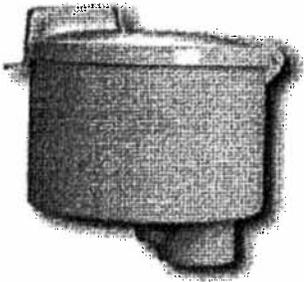
## Listings and Certifications



Underwriters Laboratory Listed UL Listing MH29367. Liquid level gauges which are intended to be used on above ground storage tanks and monitor the level of petroleum-based flammable or combustible fluids.



Morrison Bros. Co.  
**Fig. 517/518 Series**  
*Spill Containers*



**DESCRIPTION**

The Fig. 517 and Fig. 518 contain any spills that occur at the fill point on Aboveground Storage Tanks. Both are designed to be mounted on top of the AST. The Fig. 517 has a hinged cover that is lockable with a #3 Masterlock. It is of steel construction and powder coated white inside and out. The Fig. 518 Spill Container has a hinged cover that is lockable with a #1 Masterlock. It has a push type drain with a fluoroelastomer o-ring. It is of steel construction and powder coated white inside and out.

**SPECIFICATION / DETAIL OPTIONS**

- A**—Capacity: Gallons
- B**—Mounting Connection: Male (M), Female (F)
- C**—Mounting Location: Center (C), Offset (O)
- D**—Size: NPT threads
- E**—Drain: Yes/No
- F**—Screen: Yes/No
- G**—Height: (Inches)
- H**—Width: (inches)
- I**—Shipping weight: (lbs.)
- J**—Body Diameter
- K**—ULC Listing: Yes (Y), No (N)

I.D. NUMBER	A	B	C	D	E	F	G	H	I	J	K
517-0100 AC	3.5	M	C	2	N	N	8.13	17.25	9	13.14	Yes
517-0200 AC	3.5	M	C	4	N	N	8.63	17.25	9	13.14	Yes
517F-0100 AC	3.5	F	C	2	N	N	8	17.25	10.5	13.14	Yes
517F-0200 AC	3.5	F	C	4	N	N	10.13	17.25	10.5	13.14	Yes
517WO-0100 AC	3.5	M	C	2	N	Y	8.13	17.25	11	13.14	Yes
517WO-0200 AC	3.5	M	C	4	N	Y	8.64	17.25	11	13.14	Yes
518-0100 AC	7.5	F	O	4	Y	N	15.87	19.3	26	15.09	Yes
518CC-0100 AC	7.5	F	C	4	Y	N	15.87	19.3	26	15.09	Yes
518M-0100 AC	7.5	M	O	4	Y	N	17.2	19.3	26	15.09	No
518M-0200 AC	7.5	M	O	2	Y	N	16.4	19.3	20	15.09	No

Body: Powder coated white  
 Lid: Powder coated white  
 Hinge Bolt/Lock Nut: Zinc plated steel

- Fig. 518 Series Only:**
- Drain Push Rod: Brass
  - Drain Nut: Brass
  - Spring: Bronze
  - O-ring: Fluoroelastomer

# KRUEGER SENTRY GAUGE

## The Leak Gauge—Type K

Price Book, Page 6

<http://www.ksentry.com/leak.htm>



Calibration: Consists of 3 pieces. Outer plastic piece, inner plastic piece, and a piece of paper in between. Optional glass inner piece is available.

Red Lock Nut: HDPE Plastic. Also available in aluminum or PVC.

Bushing: Aluminum bushing, can be 2" or 1.5". Special package allows for a Stainless Steel Bushing also.

Internal Rods: Standard construction is aluminum rods. There are no other options for this gauge due to floatation.

76" and smaller Polypropylene Float  
77" and taller Poly Coated Cork Float

Part Number—  
K-(size opening)-(total length)-(list options)  
Sample—K-2-48-Guard

### What it is:

Top mounted liquid leak gauge that can measure from 6 inches to 170 inches in depth. Bushing size can be 2" or 1.5". Gauges are custom made in house to fit your tank. This gauge is designed to monitor either the interstitial space of a double wall containment system, or it can mount into an external monitoring pipe.

<http://www.ksentry.com/leak.htm>

### Additional Options:

**Audible Alarm Accessory:** This add on feature can turn your mechanical visual gauge into an audible leak detection alarm. (price book page 8)  
<http://www.ksentry.com/alarm.htm>

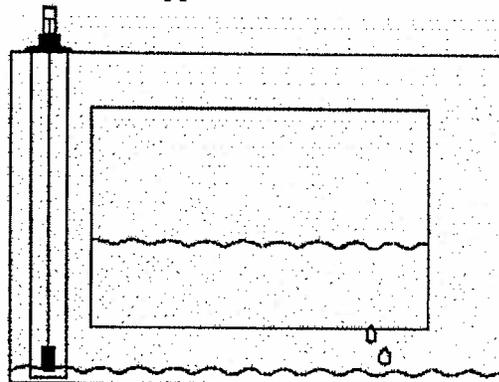
**Gauge Guard:** A cover that protects the exposed plastic components on top of the gauge. - <http://www.ksentry.com/replace.htm>

### Material Choices and Limitations:

Standard choices are listed on picture to the left.

Due to floatation, this gauge does not have many material options. The leak gauge is rarely exposed to the liquid. If it is not compatible and it is exposed, the gauge must be replaced afterward.

### Application Photo:



Krueger Sentry Gauge  
1873 Siesta Lane  
Green Bay, WI 54313

<http://www.ksentry.com>

# KRUEGER SENTRY GAUGE

Contact us for more info or a local distributor:

Ph: 920-434-8860

Fax: 920-434-8897

Email: [info@ksentry.com](mailto:info@ksentry.com)



# KRUEGER SENTRY GAUGE

## The Leak Gauge—Type K

Price Book Page 6 <http://www.ksentry.com/leak.htm>

Model	Calibration	Indicator	Lock Nut	Bushing	Internal Rods	Union	Floats	Gasket
Standard (6" - 76")	Cellulose Acetate-Plastic	HDPE	HDPE	Aluminum	Aluminum- 1/8"	Plated Nickel—1/8"	Polypropylene	Nitrile
Standard (6" - 144")	Cellulose Acetate-Plastic	HDPE	HDPE	Aluminum	Aluminum— 3/16"	Brass—3/16"	Poly coated cork	Nitrile
Options available for all of above	GLC -Glass internal, plastic external		ALN- Aluminum Lock Nut					VTN—Viton

- Sample Part Number—K-2-76-GLC

## Other Options Available on the Type K Gauge

Price Book Page 6

Level Gauge Accessory	Description	Web Link
At-A-Glance Alarm	Audible Hi or Lo Level Alarm Accessory. Retrofits right to gauge. 110 decibel alarm. 9volt lithium battery.	<a href="http://www.ksentry.com/alarm.htm">http://www.ksentry.com/alarm.htm</a>
Gauge Guard Aluminum or PVC	Durable sleeve that covers the plastic components on top of the gauge. Extend the life of the exposed parts of the gauge, and protect it from physical damage.	<a href="http://www.ksentry.com/replace.htm">http://www.ksentry.com/replace.htm</a>

Krueger Sentry Gauge  
1873 Siesta Lane  
Green Bay, WI 54313

<http://www.ksentry.com>



Contact us for more info or a local distributor.

Ph: 920-434-8860

Fax: 920-434-8897

Email: [info@ksentry.com](mailto:info@ksentry.com)

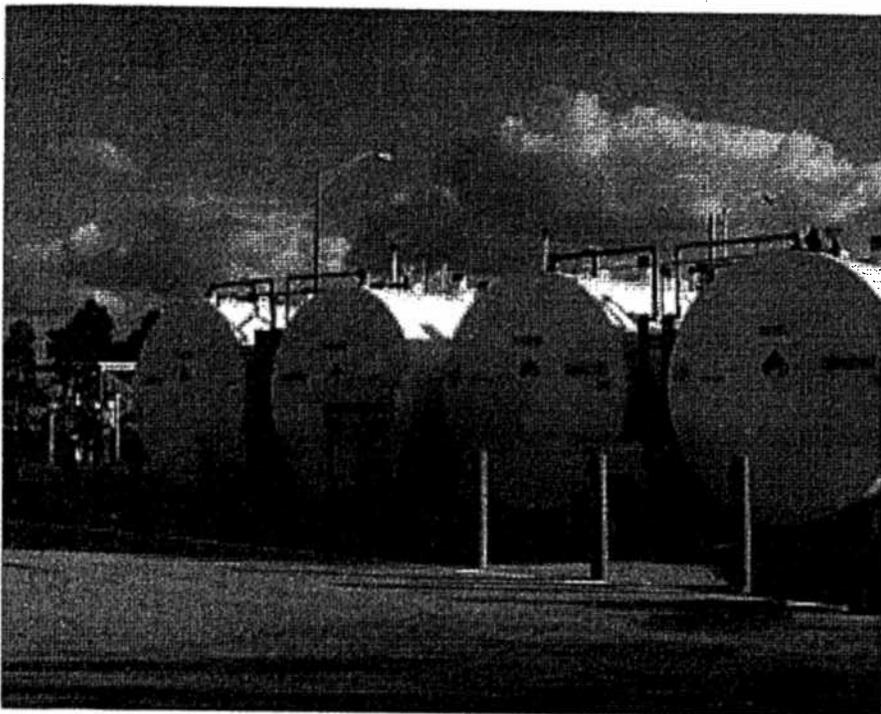
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# Aboveground Horizontal UL-142 Tanks



**Highland Tank®**

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## Aboveground Horizontal UL-142 Tanks

Highland aboveground steel tanks provide superior structural strength, product compatibility and durability for all your storage tank needs. Highland offers a variety of industry-proven designs with single and double wall options. Each tank is backed by Highland Tank's team of professionals in design, engineering, fabrication, delivery and service.

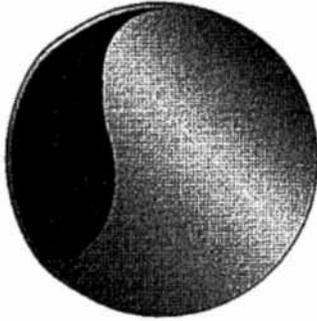
Highland aboveground horizontal tanks are available with or without supports to meet your requirements. Highland tanks are constructed to be compatible with the full range of petroleum products including those with higher methanol and ethanol contents.

Each tank is constructed, tested, and labeled in accordance with Underwriters Laboratories Standard for Safety for the Aboveground Storage of Flammable and Combustible Liquids UL-142.

The UL Storage Tank Standards provide a long history of construction dependability. In addition, Highland's tanks meet or exceed the Federal Environmental Protection Agency's regulations for aboveground storage tanks for petroleum and chemical products.

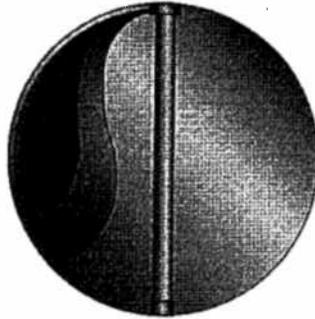
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# Standard Construction



### UL-142 Single-wall Construction

Highland single-wall storage tanks consist of a single sheet of steel meeting ASTM specifications, constructed to UL-142 standards. Material thicknesses range from 12 gauge to 3/8" of mild-carbon or stainless steel. Superior "ribbed" strength is achieved with lap joints employing a minimum 1/2" overlap.



### UL-142 Double-wall Construction

Double-wall tanks consist of a primary steel tank wrapped by an exterior steel shell that may be in direct contact with the primary tank creating a full 360° double-wall tank. The interstice can be monitored for an unlikely leak using the 2" monitoring pipe. Both inner and outer tanks are supplied with emergency vent fittings.

With Highland Tank, you get historically proven steel design and construction that provide secure, dependable storage. In addition, you have the flexibility of customizing tanks to suit your needs.

### Standard Construction Features

- Flat-flanged heads
- Continuous exterior fillet welds on all joints
- Threaded fittings (see schedule)
- Lifting Lugs
- UL-142 label
- 5 psi factory air test and seam inspection.
- Primer coating

Options include: Compartment bulkheads, man-holes, flanges, enamel, epoxy or urethane exterior coatings, and special interior linings for aviation fuel, potable water and other liquids.

### Emergency Vent Fittings

All Highland UL-142 tanks are supplied with an emergency vent fitting adequately sized to accommodate the intense increase in vapor pressure in the event of fire exposure. Emergency vents are available as an option.

## Horizontal Tank Sizing Guide

Capacity (Gallons)	Dimensions	
	Diameter	Length
185	3'-2"	3'-4"
240	3'-2"	4'-0"
300	3'-2"	5'-0"
500	4'-0"	5'-5"
500	4'-0"	5'-5"
500	4'-0"	5'-5"
1,000	4'-0"	10'-9"
1,000	4'-0"	10'-9"
1,000	5'-4"	6'-0"
1,500	5'-4"	9'-0"
2,000	5'-4"	12'-0"
3,000	5'-4"	18'-0"
4,000	5'-4"	24'-0"
4,000	6'-0"	19'-0"
4,000	8'-0"	10'-6"
5,000	6'-0"	23'-10"
5,000	8'-0"	13'-4"
6,000	6'-0"	28'-8"
6,000	8'-0"	16'-0"

Capacity (Gallons)	Dimensions	
	Diameter	Length
8,000	8'-0"	21'-4"
8,000	10'-0"	14'-0"
10,000	8'-0"	26'-8"
10,000	10'-0"	17'-0"
12,000	8'-0"	32'-0"
12,000	10'-0"	20'-6"
15,000	8'-0"	40'-0"
15,000	10'-0"	25'-6"
20,000	10'-0"	34'-0"
20,000	10'-6"	31'-0"
25,000	10'-6"	38'-9"
25,000	10'-6"	38'-9"
30,000	10'-6"	46'-6"
30,000	10'-6"	46'-6"
40,000	12'-0"	47'-6"
50,000	12'-0"	59'-6"
50,000	12'-6"	54'-6"
60,000	12'-0"	71'-0"
60,000	12'-6"	65'-5"
60,000	13'-0"	60'-6"

Notes:

For Double-wall (Type I) tanks, add 6" to length and 1" to diameter for outside dimensions (Includes monitoring pipe).

For Double-wall (Type II) tanks, add 7" to length and 3" to diameter for outside dimensions.

Two-saddle design available for all horizontal tanks. Tank heads may be fabricated with bracing or 1/16" thicker steel, per UL 142.

## Tank Support Systems



### Saddles

Saddles are used to support the tank, maintain the tank's position and elevation and provide clearance for visual inspection of the underside. Highland manufactures in accordance with UL-142. Only two saddles per tank are required. Highland's two-saddle design facilitates quicker, more trouble-free installations. Concrete pier construction information is available from Highland. Standard saddles provide 6" of clearance and are available up to 12" high.

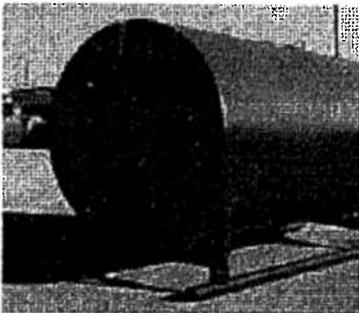


*Note: Do not rely on tack or seal-welded saddles as a means for securing a tank in flood prone areas. A hold down system, connected to an adequately sized anchor pad is recommended.*

### Supports

Structural Steel Supports are also used to maintain the tank's position and elevation and provide clearance for visual inspection of the tank's underside. Standard supports provide 6" of clearance and are available on horizontal tanks up to 4,000 gallon 5'4" diameter.

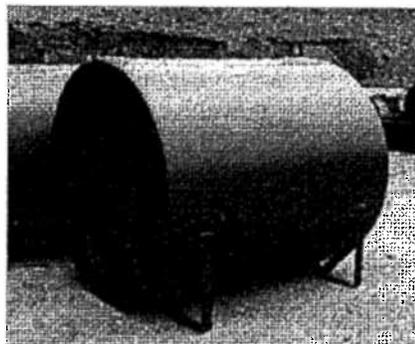
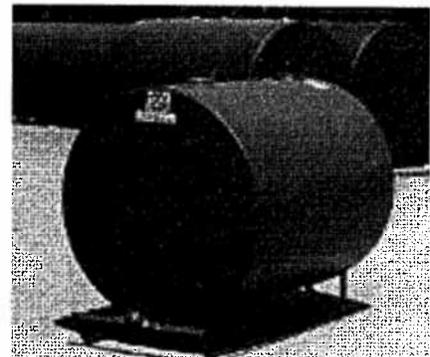
*The total square surface area touching the ground is roughly equivalent to that of our skids, which helps minimize the risk of the tank sinking into soft foundations.*



### Skids

Skids are used to provide portability for empty horizontal tanks. They stabilize the tank and maintain a fixed elevation if being moved by towing. Skids also provide clearance for visual inspection of the tank underside. Highland manufactures two styles of skids; Small tank skids for tanks up to 1,500 gallons with runners fabricated from steel angle, and large tank skids with runners made from steel pipe.

*Optional Pump Platform shown on large skid tank at left.*

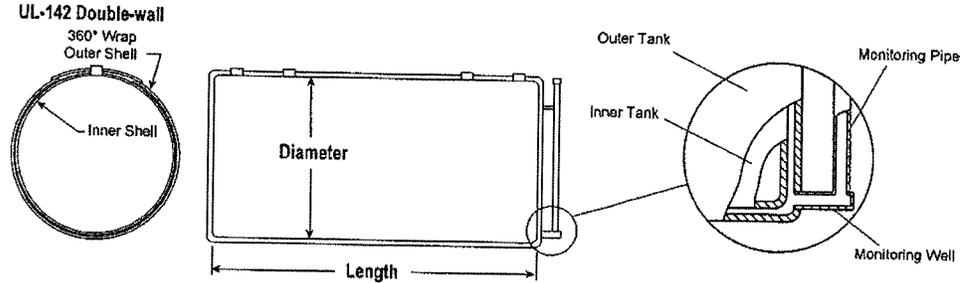


### Stabilizers

Stabilizers are used to maintain the the tank's position. The simplest support system available from Highland, stabilizers do not provide any clearance for visual inspection of the tank underside. Highland standard design consists of two stabilizers welded to the tank. Stabilizers are available on tanks up to 4,000 gallons, 5'4" diameter.

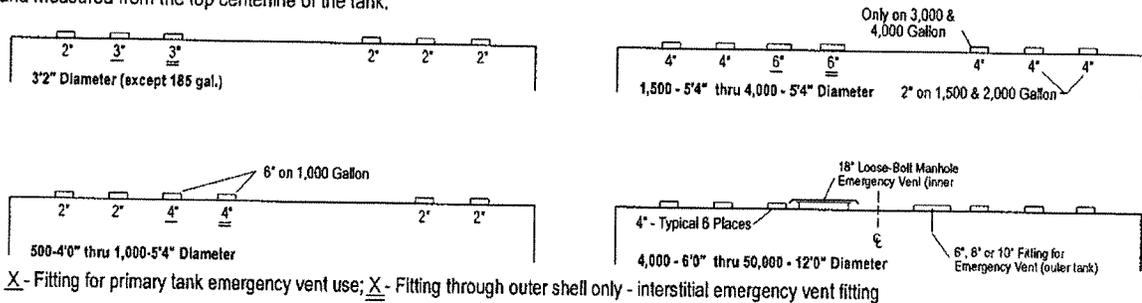
*NOTE: Highland recommends that all aboveground horizontal tanks be installed elevated 4-6" to allow for routine visual inspections of the tank's underside.*

## General Arrangement



## Standard Tank Fittings

All fittings are located and measured from the top centerline of the tank.



X - Fitting for primary tank emergency vent use; X - Fitting through outer shell only - interstitial emergency vent fitting

## Recommended Guideline Specifications

Furnish and install a \_\_\_\_\_ gallon aboveground, horizontal, (single-wall or double-wall) steel storage tank \_\_\_\_\_ inches in diameter by \_\_\_\_\_ long. Tank shall be fabricated from mild carbon steel with flat-flanged heads. Tank thickness: head \_\_\_\_\_; shell \_\_\_\_\_. All items included with the tank shall be coated with red primer or \_\_\_\_\_ color, \_\_\_\_\_ paint. The tank shall be manufactured in conformance with Underwriters Laboratories' UL-142 specifications and so labeled.

The tank shall be fabricated with the following threaded connections: \_\_\_\_\_ 2 inch, \_\_\_\_\_ 4 inch, \_\_\_\_\_ 6 inch as located on attached drawing, AND/OR \_\_\_\_\_ 150# flanged connections with flange protectors. Flange sizes as follows (qty-size): \_\_\_\_\_ with locations also indicated on drawing. (See standard fittings diagram for quantity, size and locations.) Thread protectors shall be inserted in all threaded openings prior to shipment.

Highland tanks are air tested at the factory but MUST be retested at the jobsite by the installer prior to installation.

## Options & Accessories

- \_\_\_\_ Compartment Bulkheads
- \_\_\_\_ Manway(s) \_\_\_\_\_ inches in diameter with bolted and gasketed lid
- \_\_\_\_ Loose-bolt Manway \_\_\_\_\_ inches in diameter with bolted and gasketed lid (emergency vent)
- \_\_\_\_ Support Saddles
- \_\_\_\_ Supports (2 required, up to 4,000 gal. only)
- \_\_\_\_ Stabilizers (2 required, up to 4,000 gal. only)
- \_\_\_\_ Skids (up to 15,000 gal. only)
- \_\_\_\_ Emergency Vent(s) (2 needed on double-walls)
- \_\_\_\_ External Ladder
- \_\_\_\_ External Ladder & Filling Platform
- \_\_\_\_ Stairs & Filling Platform
- \_\_\_\_ Ships Ladder & Filling Platform
- \_\_\_\_ Pump Platform
- \_\_\_\_ Walkway(s) with Handrails
- \_\_\_\_ Exterior commercial grit blast (SSPC-6),
- \_\_\_\_ Exterior epoxy primer coat \_\_\_\_\_
- \_\_\_\_ Exterior polyurethane paint \_\_\_\_\_
- \_\_\_\_ Other exterior coating \_\_\_\_\_
- \_\_\_\_ Internal Ladder(s)
- \_\_\_\_ Internal lining \_\_\_\_\_ (Must include interior weld. Min. size 500 gallon.)
- \_\_\_\_ Level Sensing System(s)
- \_\_\_\_ Overfill Containment Chamber: welded or threaded
- \_\_\_\_ Leak Sensing System (double-wall tanks only)

## Warranty

The subject tank is warranted by Highland Tank & Mfg. Co. to be free from defects in manufacturing, workmanship and materials. Highland Tank will repair or replace, at its sole discretion F.O.B. factory, within a period of one year after date of shipment, any item of our manufacture. All other items shall be warranted by their respective manufacturers. Liability hereunder is limited, as stated above, and does not include labor, installation costs, indirect or consequential damages of any kind. Tanks must be returned to the factory and if found to be defective upon examination, will be repaired, replaced or credit will be issued at our option.

## Approved Manufacturer

Tank to be manufactured by Highland Tank at one of the following locations: Stoystown, PA, Manheim, PA, Watervliet, NY, or Greensboro, NC.



Please visit us at [www.highlandtank.com](http://www.highlandtank.com)

One Highland Road  
Stoystown, PA 15563  
814-893-5701  
FAX 893-6126

4535 Elizabethtown Road  
Manheim, PA 17545  
717-664-0600  
FAX 664-0617

958 19th Street  
Watervliet, NY 12189  
518-273-0801  
FAX 273-1365

2700 Patterson Street  
Greensboro, NC 27407  
336-218-0801  
FAX 218-1292

2225 Chestnut Street  
Lebanon, PA 17042  
717-664-0602  
FAX 664-0631

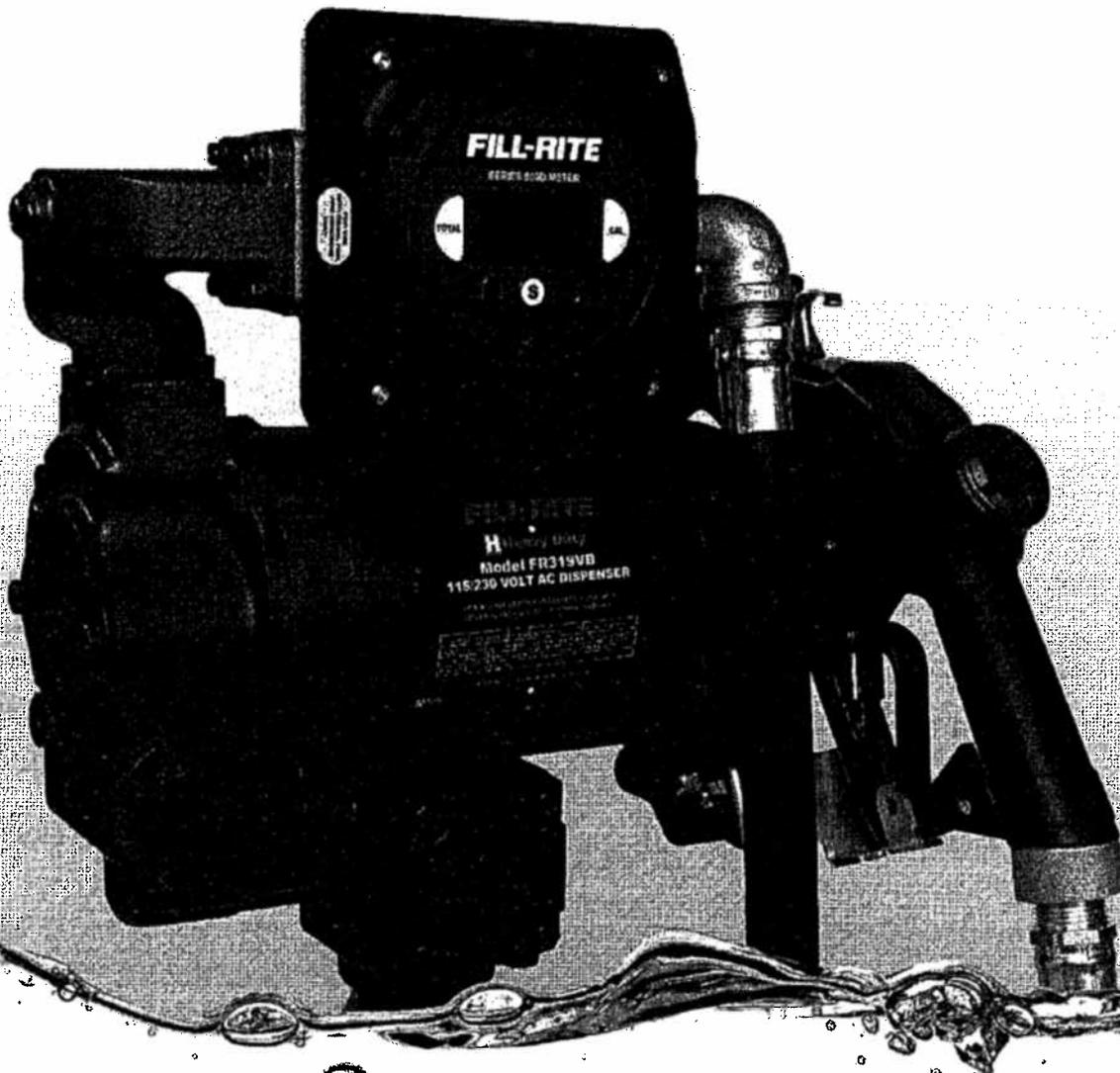
1510 Stoystown Road  
Friedens, PA 15541  
814-443-6800  
FAX 444-8662

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but with the FR319VB, you get a full 27 gpm at the nozzle—when and where you need it. You'll fuel up fast and fly back to work.

The 9000 Digital Meter is a marvel in its own right, providing more accurate metering and dependability with fewer mechanical parts. The Ultra-High-Flow Nozzle has been designed to provide better balance, less wear on the hose, and more hand or gloved-hand room.

As with all Fill-Rite products, the 319VB is made to last and perform in the toughest conditions. The all-new Fill-Rite 319VB Pump—if you're using diesel, this is the pump you should be using, too.

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- Super-high-flow diesel pump compatible up to B20
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- 9000 Digital Meter
  - Accuracy: +/- 1.25%
  - Large LCD display
  - Seven-digit resettable totalizer
- Measures in:
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  - Ounces - Liters - User-defined units

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