

**Schedule 13**  
**Funding Request for the 2014-15 Budget Cycle**

Department: Natural Resources  
 Request Title: New Well Rules Vehicles and Equipment  
 Priority Number: R-5

Dept. Approval by: William A. Levin 10/23/2013  
 Date

- Decision Item FY 2014-15
- Base Reduction Item FY 2014-15
- Supplemental FY 2013-14
- Budget Amendment FY 2014-15

OSPB Approval by: [Signature] 10/23/13  
 Date

Line Item Information		FY 2013-14		FY 2014-15		FY 2015-16
		1	2	3	4	5
	Fund	Appropriation FY 2013-14	Supplemental Request FY 2013-14	Base Request FY 2014-15	Funding Change Request FY 2014-15	Continuation Amount FY 2015-16
<b>Total of All Line Items</b>	<b>Total</b>	22,637,562	-	23,199,869	29,503	39,010
	FTE	245.1	-	245.1	-	-
	GF	18,847,672	-	19,408,617	29,503	39,010
	GFE	-	-	-	-	-
	CF	3,732,287	-	3,733,649	-	-
	RF	3,208	-	3,208	-	-
	FF	54,395	-	54,395	-	-
<b>(1) Executive Director's Office, (A) Administration, Vehicle Lease Payments</b>	<b>Total</b>	3,462,996	-	3,462,996	5,088	15,264
	FTE	-	-	-	-	-
	GF	312,940	-	312,940	5,088	15,264
	GFE	-	-	-	-	-
	CF	3,092,453	-	3,092,453	-	-
	RF	3,208	-	3,208	-	-
	FF	54,395	-	54,395	-	-
<b>(7) Water Resources Division, (A) Division Operations, Water Administration</b>	<b>Total</b>	19,174,566	-	19,736,873	24,415	23,746
	FTE	245.1	-	245.1	-	-
	GF	18,534,732	-	19,095,677	24,415	23,746
	GFE	-	-	-	-	-
	CF	639,834	-	641,196	-	-
	RF	-	-	-	-	-
	FF	-	-	-	-	-

Letternote Text Revision Required? Yes:  No:  If yes, describe the Letternote Text Revision:

Cash or Federal Fund Name and COFRS Fund Number: N/A

Reappropriated Funds Source, by Department and Line Item Name: N/A

Approval by OIT? Yes:  No:  Not Required:

Schedule 13s from Affected Departments: A copy of this request was submitted to the Department of Personnel & Administration

Other Information: None





### ***Cost and FTE***

- The Division of Water Resources (“DWR”) requests \$29,503 General Fund in FY 2014-15 and \$39,010 ongoing General Fund for FY 2015-16 and beyond for three trucks and one set of well measuring equipment for the South Platte well measurement and enforcement team (“Team”). All three vehicles will be bi-fuel with the capability to use compressed natural gas (CNG).
- This represents a 0.15% increase to the Water Administration line item.

### ***Current Program***

- The Team consists of 4.0 field staff (well commissioners) at the Engineering Physical Scientist Technician level (I and II). The Team uses well measurement equipment to investigate, measure, ensure compliance, and calibrate flow meters pursuant to the South Platte Measurement Rules (“Rules”), which were promulgated in March 2013 and become effective December 31, 2013.
- Vehicles are needed to store and transport well measuring equipment used to administer and to enforce 8,000 high capacity wells within the scope of the Rules.

### ***Problem or Opportunity***

- The Team does not have state-owned vehicles needed to carry equipment to field test sites. The use of state-owned vehicles not specifically designated for well testing use has been attempted as an alternative; however, this was unsuccessful because equipment had to be loaded and unloaded at a secured location at day’s end, every day of field use. This loading and unloading takes five to ten hours per week equating to a loss of between \$30,000 and \$60,000 in staff time annually.
- Private vehicles have neither the capability to store, transport, and protect state-owned equipment nor have the insurance to cover loss or damage in the event of an accident.
- Well measurement equipment is required for enforcement of the Rules and is not available elsewhere within the agency.

### ***Consequences of Problem***

- Without the use of appropriate state-owned vehicles, there is a loss of employee productivity, higher mileage costs, additional recalibration of equipment, and an increased risk of equipment damage.
- Without well measurement equipment, the Team cannot perform spot measurements and test flow meters, required as part of the Rules.

### ***Proposed Solution***

- To better administer and enforce 8,000 high capacity wells in the South Platte River basin, DWR requests three 4WD pickup trucks, with toppers, and one set of well measuring equipment. The vehicles and equipment will provide the necessary transportation, carrying capacity, and tools for the South Platte well measurement and enforcement team to implement and enforce the new Rules.





# COLORADO

## Department of Natural Resources

FY 2014-15 Funding Request | November 1, 2013

John W. Hickenlooper  
Governor

Mike King  
Executive Director

**Department Priority: R-5**

**Request Detail: Division of Water Resources – New Well Rules Vehicles and Equipment**

Summary of Incremental Funding Change for FY 2014-15	Total Funds	General Fund
<i>Division of Water Resources – New Well Rules Vehicles and Equipment</i>	\$29,503	\$29,503

**Problem or Opportunity:**

The Division of Water Resources (“DWR”) does not have three state-owned vehicles and the measurement equipment needed by field staff in the South Platte River basin in order to enforce recently court-approved measurement rules.

In FY 2006-07, DWR requested 4.5 FTE and four vehicles to administer large capacity wells within the South Platte River basin. The positions included 0.5 FTE program assistant, 1.0 FTE lead groundwater commissioner (supervisor), and 3.0 FTE well commissioners (field staff). The 4.5 FTE were approved; however, the vehicle request for the well enforcement team in the South Platte River basin was denied. Several court and legislative actions over the last ten years have required the strict administration of groundwater use. The FY 2006-07 request was associated with the expansive growth in the area south of Denver, the Supreme Court ruling in *Simpson v. Bijou Irrigation Co., et al*, and legislative changes enacted in 2002 and 2003. Water court cases continue to become more complex and now contain decree provisions requiring the quantification and measurement of sources of replacement water and verification of available water for subsequent uses. This requires water rights holders to install measuring devices such as totalizing flow meters on well discharges. Given the increased number of complex augmentation plans, demand for near real-time administration of water rights, and water court decree requirements for the accurate measurement of surface and groundwater diversion, groundwater measurement rules were implemented in the South Platte River basin. The South Platte River Basin Tributary Groundwater Measurement Rules (“South Platte Measurement Rules”) were promulgated in Water Court Case No. 2011CW292, with a final decree by the Division No. 1 Water Court in March 2013 (decreed by the Water Court with an effective date of December 31, 2013). Approximately 8,000 wells are within the scope of the South Platte Measurement Rules.

The duties to implement, monitor, and enforce the South Platte Measurement Rules have been allocated to the groundwater administration team for the South Platte River basin (now referred to as the “South Platte well measurement and enforcement team” which is made up of only 4.0 FTE). These added duties have necessitated the use of one set of well measuring equipment, including a GPS unit, Collins meter, Ultrasonic meter, McCrometer meters, and small tools. Well measurement equipment is required for enforcement of the Rules and is not available elsewhere within the agency. Without well measurement equipment, the South Platte well measurement and enforcement team cannot perform spot measurements and test flow meters, required as part of the Rules.

The use of state-owned vehicles not specifically designated for well testing use has been attempted as an alternative; however, this was unsuccessful because equipment had to be loaded and unloaded to a secured location at day's end every day of field use. This unloading takes five to ten hours per week equating to a loss of between \$30,000 and \$60,000 in staff time annually. If state-owned vehicles are in use for their designated purpose, staff must use their private vehicles. Without the use of appropriate state-owned vehicles, there is a loss of employee productivity, higher mileage costs, additional recalibration of equipment, and an increased risk of equipment damage. Further, employees should not be expected to provide private vehicles with hard mounted utility-type enclosures/storage boxes to protect and transport State of Colorado owned equipment. Private vehicles have neither the capability to store and transport this equipment nor have the insurance to cover loss or damage in the event of an accident. If employees use their private vehicles, equipment must be loaded and unloaded during every day of field use to address security needs.

***Proposed Solution:***

To better administer and enforce 8,000 high capacity wells in the South Platte River basin, DWR requests \$29,503 in FY 2014-15 and \$39,010 ongoing in General Fund to fund three dedicated vehicles and one set of measurement equipment for the South Platte well measurement and enforcement team.

The DWR requests three ½ ton 4WD pickup trucks with toppers (\$17,503 General Fund total) and one set of well measuring equipment (\$12,000 General Fund) for the existing 4.0 FTE in the South Platte well measurement and enforcement team. All three requested vehicles will be bi-fuel with the capability to use compressed natural gas (CNG). The vehicles will be used by the lead groundwater commissioner (supervisor) and two of the three well commissioners (field staff). The third field staff member remains in the office and does not need a vehicle. DWR currently has two sets of well testing equipment that were acquired when one-time, outside grant funding became available. If this request is approved, all three vehicles would be equipped with their own set of well testing equipment. The additional well measurement equipment will allow the South Platte well measurement and enforcement team to investigate, measure, ensure compliance, and calibrate the metering methods as mandated by the court-approved the South Platte Measurement Rules.

Well measurement technicians in other locations across the state use state-leased vehicles due to the large amount of equipment carried daily to enforce measurement rules. The state-owned vehicles are used to travel and carry equipment to the field sites, requiring measuring equipment suitable to the various types of metering systems installed. Well testing personnel carry heavy and bulky state-owned calibrated measuring equipment that has a value in excess of \$12,000 per set. Hard mounted storage bins/utility boxes for the equipment are necessary to prevent damage or loss. This equipment includes: Collins meters, Ultrasonic meters, various-sized McCrometer meters (6", 8", and 10" diameter), pipe, connectors, hand and power tools, ladders, buckets, hoses, pipe clamps, and electronic recording instruments. The amount of equipment necessary to perform these daily tasks requires a ½ ton pickup truck for volumetric and weight-carrying capacity.



Picture #1: Typical equipment carried by well measurement and enforcement staff.



Picture #2: Vehicle fully loaded with well equipment

**Anticipated Outcomes:**

These vehicles are required to store and transport flow meter verification equipment and other associated tools required to effectively administer approximately 8,000 high capacity wells in the South Platte River basin. This includes wells that directly impact Colorado’s compliance with the South Platte Interstate Water Compact between Colorado and Nebraska.

The DWR anticipates that having three state-owned vehicles will save on staff time, potential equipment damage or loss, and personal mileage reimbursement. The existing 4.0 FTE on the South Platte well measurement and enforcement team currently spend five to ten hours per week loading and unloading equipment, equating to a loss of between \$30,000 and \$60,000 in staff time in a year. In addition, the use of state-owned vehicles alleviates the potential for equipment damage and re-calibrations due to constant moving and storage.

**Assumptions and Calculations:**

Vehicles are based on the current cost to lease a CNG (bi-fuel capable) ½ ton 4WD pickup truck for 96 months, estimated driving of 20,400 miles per vehicle at \$0.388 per mile, and the cost of \$1,500 to add a topper onto each vehicle. The monthly lease amount is \$424 per vehicle (\$389 + \$35 management fee per State Fleet Management). The cost of new well testing equipment is \$12,000.

The following table offers a breakdown of the aggregate costs for FY 2014-15:

Year	Mileage per vehicle (March-June)	Lease Amount per vehicle (March-June)	Topper per vehicle (one-time)	Number of vehicles	Well Testing Equipment (one set)	Total
Calculation	(20,400/12)* \$0.388 * 4 months	(\$389+\$35) * 4 months	\$1,500.00	3	\$12,000.00	(\$2,638.40*3)+ (\$1696*3)+ (\$1500*3)+ (\$12,000)
FY 2014-15	\$2,638.40	\$1,696	\$1,500	3	\$12,000	<b>\$29,503</b>

The next table offers a breakdown of aggregate costs for FY 2015-16:

<b>Year</b>	<b>Mileage per vehicle (annual)</b>	<b>Lease Amount per vehicle (annual)</b>	<b>Topper per vehicle</b>	<b>Number of vehicles</b>	<b>Well Testing Equipment</b>	<b>Total</b>
Calculation	20,400*\$0.388	(\$389+\$35)*12 months	NA	3	NA	(\$7,915.20*3)+ (\$5088*3)
FY 2015-16	\$7,915.20	\$5088	NA	3	NA	<b>\$39,010</b>

The totals have been rounded to \$29,503 for FY 2014-15 and \$39,010 for FY 2015-16 and beyond.

***Supplemental, 1331 Supplemental or Budget Amendment Criteria:***

Not applicable.



**Schedule 13**  
**Funding Request for the FY 2014-15 Budget Cycle**

Department: Department of Personnel & Administration

Request Title: DNR New Well Rules Vehicles and Equipment

Priority Number: NP - 10

Dept. Approval by: *Kristen T. Popeno* Date: 10/24/13

OSPB Approval by: *David W. Schell* Date: 10/22/13

- Decision Item FY 2014-15
- Base Reduction Item FY 2014-15
- Supplemental FY 2013-14
- Budget Amendment FY 2014-15

Line Item Information		FY 2013-14		FY 2014-15		FY 2015-16
		1	2	3	4	5
Fund		Appropriation FY 2013-14	Supplemental Request FY 2013-14	Base Request FY 2014-15	Funding Change Request FY 2014-15	Continuation Amount FY 2015-16
<b>Total of All Line Items</b>	<b>Total</b>	\$18,014,816	\$0	\$18,197,990	\$5,088	\$15,264
	FTE	0.0	0.0	0.0	0.0	0.0
	GF	\$0	\$0	\$0	\$0	\$0
	GFE	\$0	\$0	\$0	\$0	\$0
	CF	\$0	\$0	\$0	\$0	\$0
	RF	\$18,014,816	\$0	\$18,197,990	\$5,088	\$15,264
	FF	\$0	\$0	\$0	\$0	\$0
<b>(4) Central Services (C) Fleet Management Program and Motor Pool Services, Vehicle Replacement Lease, Purchase or Lease/Purchase</b>	<b>Total</b>	\$18,014,816	\$0	\$18,197,990	\$5,088	\$15,264
	FTE	0.0	0.0	0.0	0.0	0.0
	GF	\$0	\$0	\$0	\$0	\$0
	GFE	\$0	\$0	\$0	\$0	\$0
	CF	\$0	\$0	\$0	\$0	\$0
	RF	\$18,014,816	\$0	\$18,197,990	\$5,088	\$15,264
	FF	\$0	\$0	\$0	\$0	\$0

Letternote Text Revision Required? Yes:  No:  If yes, describe the Letternote Text Revision:

Cash or Federal Fund Name and COFRS Fund Number: Fund 607 - Fleet Management

Reappropriated Funds Source, by Department and Line Item Name:  
Approval by OIT? Yes:  No:  Not Required:

Schedule 13s from Affected Departments: N/A Corresponding Request

Other Information:

