



Board Briefing Report

DATE: September 18, 2009

TO: Board of Supervisors

FROM: Arpi K. Apkarian, Deputy Director of General Services
Alan Weaver, Director of Public Works and Planning

SUBJECT: Heavy Duty Equipment

EXECUTIVE SUMMARY

During FY 2009-10 Budget Hearings, your Board requested additional information regarding the County's heavy duty fleet. In response to your Board's request, staff will continue to annually review the County's heavy duty equipment needs in an attempt to surplus equipment that is no longer required, rent equipment and/or utilize contract services when it is more cost-effective, share equipment among road yards when feasible, and reduce staff when it is warranted. Following is a brief description and status of the heavy duty equipment.

HISTORY/STATUS

County Road Maintenance

Fresno County is responsible for approximately 3,530 miles of maintained roadway, which is the most of any County in the state. A wide variety of fleet equipment is needed to respond to the needs of these roads that can be located in areas ranging from rural farm areas to urban areas to roads in mountainous terrain. Fresno County is definitely not "one size fits all" when it comes to maintaining these roads.

Maintenance activities for these roads include pothole patching, shoulder maintenance, and other routine road maintenance activities. These include culvert maintenance, bridge maintenance and repair, trash and tire removal in the road right of way, storm damage repairs, tree trimming, snow removal and other storm response, installing and maintaining traffic signs, pavement markings, and traffic line striping.

The field maintenance staff is assigned to 10 road areas, with a total of 12 road yards as there are satellite yards in Dunlap (staffed year round) and Shaver Lake (primarily used for snow removal operations). There is an average of 11 employees assigned to each area. The road yards are located throughout the County and the yards are responsible for certain geographical areas. This enables the area supervisor to be responsible for a manageable area and ensures a reasonable response time to emergencies. A map of the road areas and road yards is shown in Exhibit A.

Heavy Duty Equipment

Uses - Exhibit B provides descriptions of some of the heavy duty equipment used by Public Works. For the most part, the equipment has multiple uses. They often are used one way during one season and used in another way in a different season depending on the maintenance needs at the time. The only equipment

not used year round is mowers and snow removal equipment. A spreadsheet showing the use of individual fleet equipment is shown as Exhibit C.

Availability - Much of the equipment is specialized and not readily available from rental agencies. In addition, most of the other equipment performs multiple functions and, although they may not be used on a daily or even weekly basis, they are often needed with very little notice to respond to emergencies. If the County did not have to respond to emergency or hazardous situations, the size of the fleet could be reduced without a reduction in service or response time. However, even equipment that is commonly available to be rented would not be accessible without long delays if it were needed after hours or on weekends. In addition, the availability of standard equipment cannot be guaranteed because the rental companies rent to private companies and other agencies. At times it is possible that the demand for a certain type of equipment exceeds the number the rental companies have available.

Costs - Rental rates do not include fuel and the County is still responsible for minor repairs, such as flat tires, broken glass, etc. A current list of rental rates for equipment typically rented is attached as Exhibit D. In addition to rented equipment that is driven by County personnel, some services can be contracted out that include equipment. These services include trucking, water trucks, and traffic striping. The department has used these services when needed due to heavy workloads, or in the case of the traffic striping, to carry out required duties when the old striping was damaged in a fire. Rates for these services are also included in Exhibit D.

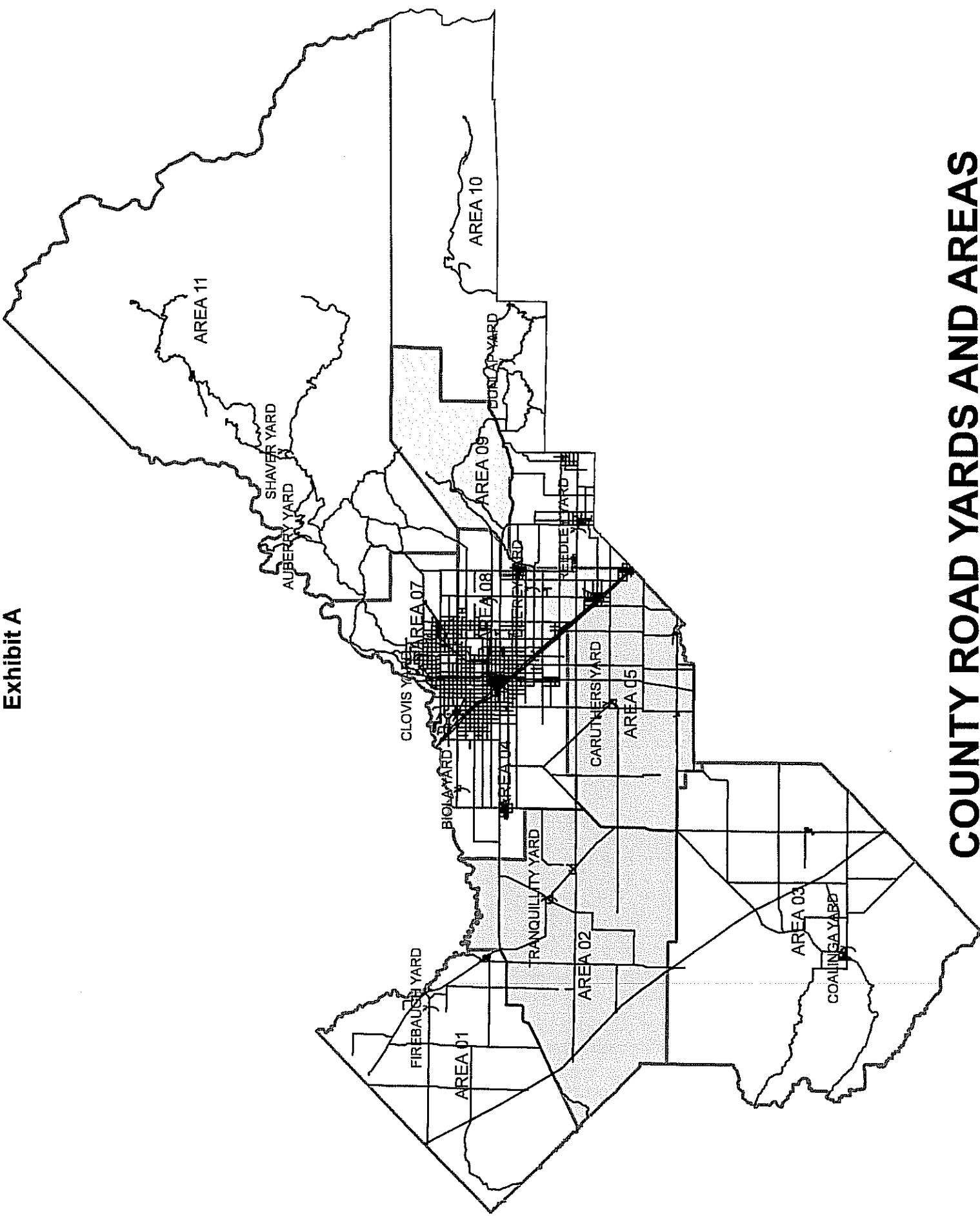
Other Factors - Road Equipment Operators are expected to have at least minimum skills on most equipment and may be called upon to operate multiple pieces of equipment on any given day. This provides flexibility not available if the County were to use a service contract instead of a straight rental. For example, an operator may be told to take a ten-wheel dump to a stockpile and load it with a loader. When they deliver the load to a project site, they are then available to assist a backhoe operator in digging out base failure by flagging traffic, doing needed shovel work, or operating other equipment at the jobsite. When the job is complete, they can repeat the cycle again with the next load. In the same scenario, a contract trucker would require a County operator to load material on one end of the project. The contract driver then dumps the load at the other end of the project and leaves. The County would have operators at each end who have to wait for the contract trucker with much more idle time than if they operated County owned trucks.

Reduction of Fleet - Over the last few years General Services, working with the Department of Public Works and Planning, has made a conscious effort to reduce its fleet. Exhibit E shows the reductions in equipment since 2007. Much equipment is now shared between road yards; however, sharing equipment is not always feasible. During storm events, the entire County can be hit at the same time and enough equipment has to be available to meet the health and safety needs of the public, in addition to the regular maintenance needs of the County.

Fleet Services Staffing - Currently, Fleet Services' heavy duty complement consists of 349 pieces of equipment, with the majority assigned to Public Works. Fleet Services currently has 10 mechanics in its heavy duty shop. Three of the mechanics are assigned to construction equipment, three are dedicated to truck maintenance, and three are assigned to field maintenance (one each on the eastside, westside, and at Kearney Park). Also included in the heavy duty mechanic complement is the master mechanic position, which is responsible for the supervision of heavy duty shop staff. During FY 2009-10 Budget Hearings, Fleet Services deleted one heavy duty mechanic position. Although there has been some reduction in heavy duty equipment over the past few years, it has not been substantial enough to merit further reduction in staff. As mentioned above, equipment must be ready and available when needed, primarily for public safety reasons. In addition, heavy duty equipment workload has increased as more Federal and State regulations and mandates are being imposed, requiring time-consuming servicing and retrofits.

CONTACT PERSON

For additional information, please contact Arpi Apkarian at 488-1721 or Alan Weaver at 262-4078.



COUNTY ROAD YARDS AND AREAS

Exhibit B

PUBLIC WORKS HEAVY DUTY EQUIPMENT DESCRIPTIONS

***2800 Series - Service Truck:** Used as a support for all field operations for fueling and greasing of equipment when not starting or ending day at maintenance yard. They carry a full compliment of mechanics' tools and allow the operator to perform oil and filter changes as well as minor repairs as needed to streamline daily operations.

***2900 Series - Self Loading Dump Truck:** More commonly referred to as patch trucks or PB trucks, these trucks are the backbone of road maintenance operations. They are multi purpose and may be used as a regular dump truck hauling anything from trash to all types of construction materials. They are used to patch pot holes, or push fallen trees from the road, pick up mud and rocks from a slide, or spread and pick up sand after a road has become slick due to a spill or an accident. Also under this class is the hot patch truck. These are used exclusively for patching and pavement repair. They allow for patching with much more durable asphalt, especially for use in urban areas.

***3010 Vector Truck:** Used in the cleaning of storm water drainage inlets. It is also used for hydraulic excavation for the location of buried utilities.

***3100 Series - Five Yard Dump Truck with Snow Plow:** This is an intermediate size dump truck with its main function of snow removal and spreading of sand on icy roads. It also serves to transport various types of aggregates and spoils to and from maintenance projects. The size of the truck is very beneficial in mountainous areas where assigned as it allows for a large load and still is maneuverable enough for narrow winding mountain roads. The sand spreader may also be utilized in the application of asphalt rejuvenation agents.

3110 - Striper Truck: This truck is used to paint centerline stripes, lane lines, edge lines, and bike lanes. This is a safety issue to keep vehicles travelling in the proper lanes in all kinds of weather and visibility conditions.

3200 Series - Three Axle Ten-Wheel Truck: This class consists of both dump trucks and dedicated water trucks. Ten yard dump trucks serve to haul large volumes of materials when needed to be delivered in an end dump application. These trucks are also used to haul specialized material for spreading equipment such as a paving machine or shoulder backing machine. Six of these trucks are also equipped with slide-in water tanks to serve as a dual purpose truck (see water truck below). These trucks are also equipped with hitches and pull tilt-bed equipment hauling trailers. Trailers are also used to transport long bridge timbers and various types and sizes of pipe.

Water trucks can only haul water. They are used in the suppression of dust and for compaction of materials in maintenance and construction projects. Water trucks are self loading and are also used in the pumping of standing storm water in areas that present a concern for traffic safety. These trucks have also been utilized to support fire suppression efforts by different agencies.

3400 Low Bed Truck: This truck serves both road maintenance and fleet services. It is used to transport heavy equipment between different job locations or area yards for the most effective use of equipment in the fleet. It is also used to transport vehicles and equipment to the shop for repairs. This truck has been used by other departments, including the Sheriff's Office, District Attorney and Emergency Services, in property recovery or transport of specialized equipment.

3700/3800 Series - Bottom Dump Truck/Trailer: This is the most efficient way to haul large volumes of materials that can be delivered in a windrow such as resurfacing, shoulder backing, reconstruction, snow sand etc.

4200 Series - Dozer Tractor: These are used in the generation of stockpile materials at borrow pits including dirt, shale rock, decomposed granite etc. They may also be used to "push-up" imported materials into a stockpile for later use. They are used as a ripper tractor in the removal or pulverization of existing pavement. They pull heavy grid rollers to break up and recycle materials for road base or fill. Dozers have been used to assist in levee repairs during periods of flooding.

***4500 Series - Mower Tractor:** These are used in the mowing of shoulder weeds and brush for removal of fire hazards and improved visibility. New replacement mowers have also been specified to be able to function as a pull tractor, thus allowing for additional use of a specialized piece of equipment.

4700 and 4900 Series - Pull Tractor: These tractors are used to pull various types of equipment, but mainly pull rollers and discs. These operations are used as part of routine shoulder maintenance in an effort to maintain a safe recovery zone adjacent to the roadway. Tractors, when coupled with pull mixers, are also used in the manufacture of Road Mix Surfacing.

5100 Series – Motorgrader: These are used in the spreading of materials for surfacing of a roadway or maintenance of shoulders. They are used in establishing flow lines for drainage of storm water and in the grading of dirt roads that are in the maintained system. Four to six graders are staged throughout mountain areas during winter for snow removal.

5400 Series – Scraper: These are used to move dirt during construction projects or for routine maintenance including shoulder grading. These may also be used in the stockpiling of dirt for later use.

5700 Series - Wheel Loader: The primary function of the loader is to scoop up loose material and load it into a truck. However, loaders are often called upon to perform many other functions. They may be needed to push a large fallen tree from the road to allow traffic to proceed or remove a rock slide. They might pick up a dead horse or clear snow. There is one loader that is dedicated to our snow blower.

5800 Series – Backhoe: The backhoe serves as a light duty loader and can perform all the above duties, but is limited in its load capacities and maneuverability. A backhoe is used for excavation and repair of road base, pipe lines, and culvert pipes, as well as drainage maintenance and tree removal. During periods of heavy rains, a backhoe is often used to remove debris such as trees that have floated down and lodged against bridge supports, possibly saving the bridge from being washed out.

***6400 & 6500 Series - Pneumatic and Grid Roller:** These are pulled behind wheel or dozer tractors in the compaction or pulverization of various materials.

***6600 Series - Pull Broom:** These are used to clean dirt and debris from road surface in preparation of surface maintenance. They are also used to clean various types of spills from roads.

* denotes specialized equipment not available for rent

Exhibit C

PUBLIC WORKS HEAVY DUTY EQUIPMENT USAGE (CALENDAR YEAR 2008)

Area	Equip. No.	Equip. Class	Year	Description	Calendar Yr. 2008 Usage (Hours)
11	2701	2701	1985	Ford F800 2 Ton Flat Bed	57
8	2708	2708	1990	F-700 2 Ton Dump Flat Bed	242
2	2711	2711	1993	GMC 3 Way Dump	467
7	2712	2712	1993	Chevy 2 Ton Flat Bed	333
8	2772	2772	1989	IH 4700 2 Ton 3-Way Dump	296
1	2773	2773	1990	International 4700 Flat Bed	324
10	2775	2775	1999	Kenworth 30,000 GVW Flat Bed Truck	357
4	2776	2776	2000	Kenworth T-300 Flat Bed Dump	384
5	2777	2777	1996	Kenworth 2 Ton Dump Bed	225
3	2778	2778	2000	2 Ton Flat Bed	371
10	2779	2779	1999	Kenworth 30,000 GVW Flat Bed Truck	488
3	2805	2805	1980	Service Truck	184
8	2806	2806	1979	F-7000 Fuel Service Body Truck	503
2	2807	2807	1980	Ford C 7000 Service Truck	747
5	2809	2809	1985	Ford Service Truck	592
9	2810	2810	1993	Chevy Kodiak Fuel Truck	648
1	2908	2908	1992	Ford C 8000 Front End Loader P/B	306
7	2920	2920	1995	International P/B Truck	557
5	2921	2921	1995	International P/B Truck	587
10	2922	2922	1995	International P/B Loader Truck	170
3	2924	2924	2002	Patch Truck	1079
5	2925	2925	2001	Freightliner P/B Truck	1101
9	2926	2926	2001	Freightliner P/B	858
11	2927	2927	2002	Freightliner Patch Truck	470
7	2928	2928	2001	Freightliner P/B Truck	638
10	2929	2929	2001	Freightliner P/B Loader Truck	846
10	2930	2930	2001	Freightliner P/B Loader Truck	442
1	2931	2931	2002	Freightliner FL70 P/B Loader	920
1	92931	2931	2008	Freightliner FL70 P/B Loader	NEW
2	2932	2932	2002	Freightliner FL 70 P/B Loader	897
4	2933	2933	2002	Freightliner P/B Patch Truck	898
3	92933	2933	2009	Patch Truck	NEW
4	2934	2934	2002	Freightliner P/B Patch Truck	687
5	92935	2935	2009	Freightliner P/B Truck	NEW
2	92936	2936	2009	Freightliner P/B Loader	NEW
11	2937	2937	2002	Freightliner Patch Truck	506
9	92939	2939	2009	Freightliner P/B	NEW
7	92947	2947	2009	Freightliner Thermo-Lay Patch Truck	NEW
8	92948	2948	2009	Freightliner Thermo-Lay Patch Truck	NEW
7	3010	3010	2004	Vactor inductor Truck	460
11	53101	3101	2005	International Dump Truck/wing plow	336

Area	Equip. No.	Equip. Class	Year	Description	Calendar Yr. 2008 Usage (Hours)
10	3102	3102	1986	International Snow plow Truck	163
10	3103	3103	1992	International Snow plow Truck	265
11	73107	3107	2007	International Dump Truck/wing plow	198
1	3201	3201	2000	International 9900 6X4 10 wheel Dump	745
4	3204	3204	2000	Freightliner 10 Wheel Dump Truck	413
3	3205	3205	2000	International 10 Wheeler	645
11	3208	3208	1997	Freightliner ten-wheel Dump Truck	479
5	3209	3209	1997	Freightliner 10 Wheel Dump Truck	429
2	3210	3210	1997	Freightliner FL 120 Dump Truck	609
8	3211	3211	1997	Freightliner FLD P/B 10-Wheel Dump	1253
9	3212	3212	1999	International 3 Axle Dump	814
10	3213	3213	1999	International 3 axle Dump Truck	668
7	3214	3214	1999	International 10 wheel Dump Truck	377
5	3224	3224	1982	GMC Dedicated Water Truck	733
4	3225	3225	1982	G.M.C. Water Truck	451
5	3226	3226	1981	GMC Dedicated Water Truck	547
2	3227	3227	1982	GMC General Water Truck	341
8	3400	3400	1992	Peterbuilt 3-Axle Truck tractor	1028
1	3513	3513	1981	GMC 5 Star Water Truck	387
8	83700	3700	2008	Freightliner 2-axle Truck tractor	724
8	83701	3701	2008	Freightliner 2-axle Truck tractor	949
7	83705	3705	2008	Freightliner Tractor	NEW
10	83706	3706	2008	Freightliner Truck Tractor	1036
5	53709	3709	2004	Peterbuilt Truck	1115
5	53710	3710	2004	Peterbuilt Truck	1077
4	53711	3711	2005	Peterbuilt 5th Wheel Truck	884
4	53712	3712	2005	Peterbuilt 5th Wheel Truck	868
8	73718	3718	2007	Beall Pull Belly Dump Trailer	NO METER
8	73719	3719	2007	Beall Semi Belly Dump Trailer	NO METER
8	73720	3720	2007	Beall Pull Belly Dump Trailer	NO METER
8	3800	3800	1987	Murray Low Bed Equipment Trailer	NO METER
5	63804	3804	2006	Beall Bottom Dump Trailers	NO METER
5	63805	3805	2006	Beall Bottom Dump Trailers	NO METER
5	63806	3806	2006	Beall Bottom Dump Trailers	NO METER
5	63807	3807	2006	Beall Bottom Dump Trailers	NO METER
7	73813	3813	2007	Beall semi Trailer bottom Dump	NO METER
7	73814	3814	2007	Beall semi Trailer bottom Dump	NO METER
10	73815	3815	2007	Bottom Dump Trailer	NO METER
10	73816	3816	2007	Bottom Dump Trailer	NO METER
8	73817	3817	2007	Beall Semi Belly Dump Trailer	NO METER
9	4205	4205	1970	Cat D6C Hyd Dozer	181
9	4206	4206	1970	Cat D6C Hyd Dozer	162
4	4207	4207	1970	Cat D-6 Bulldozer	126
2	4502	4502	1991	Case 5120 Mower	158
8	4503	4503	1987	Case wheel Tractor Mower	237
10	4504	4504	1996	John Deere 6400 Mower tractor/Mower	345
5	4505	4505	1997	John Deere Mower Tractor	12
1	4511	4511	2002	John Deere Tiger mower tractor	115
4	4514	4514	2002	John Deere 6420 Tiger Mower	222

Area	Equip. No.	Equip. Class	Year	Description	Calendar Yr. 2008 Usage (Hours)
5	4515	4515	2002	John Deere Mower Tractor	82
7	4517	4517	2002	John Deere Tiger Mower	NEW METER
11	4521	4521	1997	John Deere 6400 mower tractor	179
8	4609	4609	1985	John Deere Backhoe	86
4	4701	4701	1986	Ford TW-5 Tractor	93
1	4702	4702	1986	Ford TW-5 Tractor	402
9	4703	4703		Ford Farm Tractor W/Cab	114
5	4704	4704	1987	Ford 2WD Tractor	249
8	4900	4900	1988	Ford W-15 Wheel Tractor	305
3	4901	4901	1995	Pull Tractor	90
4	4902	4902	1995	John Deere 7700 Tractor	216
10	4910	4910	1990	TW 15 Ford Diesel tractor	450
7	4911	4911	1990	Ford 4-wheel drive tractor	59
1	4912	4912	1993	John Deere 7700 Tractor	225
5	4913	4913	1992	John Deere 4WD Tractor	215
9	5101	5101	1997	Cat Motor Grader	481
8	5118	5118	2003	Caterpillar 140H Motor Grader	409
9	5119	5119	2003	Cat Motor Grader	543
10	5120	5120	2003	140 H Cat Motor Grader	702
1	5121	5121	2003	Caterpillar 140H Motor Grader	89
2	5122	5122	2003	Caterpillar Motor Grader	1767
3	5123	5123	2005	Caterpillar Motor Grader	375
4	5124	5124	2003	CAT Motor Grader 140H	282
5	5125	5125	2003	Caterpillar Motor Grader	457
10	5126	5126	2003	140 H Cat Motor Grader	294
5	5127	5127	2003	Caterpillar Motor Grader	354
4	5128	5128	2003	CAT Motor Grader 140H	354
11	5130	5130	1977	12G Cat Motor Grader	218
11	5131	5131	2003	140 Cat Motor Grader	273
1	5133	5133	1983	Caterpillar 140-G Motor Grader	119
1	5134	5134	1983	Caterpillar 140-G Motor Grader	221
7	5137	5137	1987	John Deere Motor Grader	145
2	5138	5138	1987	John Deere 770B Motor Grader	457
3	5139	5139	1987	John Deere Motor Grader	95
10	5147	5147	1995	John Deere 772 BH Motor Grader	466
9	5400	5400	Pool	Cat Scraper	321
5	5705	5705	1992	John Deere Loader 644	188
5	5706	5706	1995	John Deere Loader 544	143
10	5707	5707	1996	544 G John Deere Front Loader	276
11	5711	5711	1977	966C Cat Loader	52
11	5712	5712	1979	Cat Loader	359
1	95721	5721	2009	John Deere Loader 544K	NEW
2	95722	5722	2009	John Deere Loader 544K	NEW
3	95723	5723	2008	John Deere Loader	NEW
7	95727	5727	2008	John Deere Loader	NEW
8	95728	5728	2009	John Deere Loader	NEW
9	95729	5729	2009	John Deere Loader	NEW
10	95730	5730	2009	John Deere Loader	NEW
10	95730	5730	2009	544 K John Deere Front Loader	NEW

Area	Equip. No.	Equip. Class	Year	Description	Calendar Yr. 2008 Usage (Hours)
5	5731	5731	2004	Cat Loader	NEW METER
11	95731	5731	2009	544K J. D. Loader	NEW
10	95800	5800	2009	John Deere Backhoe	NEW
3	5801	5801	1995	John Deere Backhoe	138
4	95804	5804	2009	John Deere Backhoe	NEW
11	5805	5805	1992	510D John Deere backhoe	271
5	95805	5805	2009	John Deere Backhoe	NEW
1	5806	5806	1992	John Deere JD510D Backhoe	156
7	5807	5807	1994	John Deere backhoe	248
9	95809	5809	2009	John Deere Back Hoe	NEW
8	6114	6114	1968	Rex Pull Mixer	NO METER
9	6115	6115	1968	Rex Mixer	NO METER
11	6401	6401	1975	Grace Roller	NO METER
2	6402	6402	2002	Ferguson RT 1300	NO METER
3	6403	6403		Pull Roller	NO METER
1	6404	6404	2002	Ferguson RT 1300 Pull Roller	NO METER
7	6407	6407		Ferguson RT1300 Rubber Tire Roller	NO METER
9	6409	6409	2002	Pull Roller	NO METER
10	6410	6410		Ferguson Pneumatic Roller 13 Wheel	NO METER
8	6411	6411	1972	Grace 13 Rubber Tire Pull Roller	NO METER
4	6418	6418	1987	Grace Pneumatic 13 Roller	NO METER
5	6419	6419	1987	Grace Pull Roller	NO METER
8	6502	6502	1979	Hyster Grid Roller	NO METER
2	6503	6503	1979	Grid Roller	NO METER
5	6513	6513	1972	Grid Roller	NO METER
5	6514	6514	1972	Grid Roller	NO METER
8	6515	6515	1979	Hyster Grid Roller	NO METER
4	6600	6600	1986	Power Pull Broom	647
9	6601	6601	1990	Sweepster Pull Broom	166
7	6602	6602	1990	Sweepster Power broom	55
8	6603	6603	1990	Sweepster Power Broom	108
11	6604	6604	1991	Sweepster power broom	94
10	6605	6605	1991	Sweepster Pull Broom	132
5	6607	6607	1994	Sweepster Pull Broom	55
2	6608	6608	2002	Sweepster H84 Power Broom	23
3	6610	6610		Power Broom	34
1	6611	6611	1993	Sweepster H84	53
10	6612	6612	1995	Sweepster Pull Broom	65
8	77110	7110		Clark C-500 Fork Lift 14300lb	32
10	7600	7600	1986	Emulsion Spray Trailer	NO METER
8	7601	7601	1975	Bitumul Trailer (Shop Made)	NO METER
11	7602	7602	1975	Emulsion Trailer	NO METER
5	7603	7603	1970	Emulsion Trailer	NO METER
9	7604	7604	1970	Emulsion Trailer	NO METER
1	7605	7605	1970	Emulsion Trailer (Honda Rebuilt motor)	NO METER
4	7606	7606	1970	550 Gal Emulsion Trailer	NO METER
7	7607	7607		Emulsion Trailer	NO METER
3	7608	7608		Emulsion Trailer	NO METER
2	7609	7609	1970	Emulsion Trailer	NO METER

Area	Equip. No.	Equip. Class	Year	Description	Calendar Yr. 2008 Usage (Hours)
1	7700	7700	1984	Zieman 2320 Trailer	NO METER
11	7701	7701	1984	Zieman Trailer	NO METER
2	7703	7703	2003	Zieman Trailer 2347	NO METER
4	7706	7706	1986	Zieman Equipment Trailer	NO METER
3	7713	7713		Zieman Trailer	NO METER
5	7715	7715	2004	Zieman Tilt Bed Trailer	NO METER
7	7717	7717		Zieman Tilt Trailer	NO METER
9	7719	7719	2004	Zieman Trailer	NO METER
8	7729	7729	1980	Zieman Tilt Bed equipment Trailer	NO METER
10	7731	7731	1981	Zieman Tilt Bed Trailer	NO METER
8	8103	8103	1990	Domries 6' Wheel Disc	NO METER
8	8104	8104	1990	Indusco 3-Point Disc	NO METER
7	8110	8110		Pull Disc	NO METER
8	8119	8119	1973	Gannon Scraper	NO METER
8	8143	8143	1995	Tiger Flail Mower Deck	NO METER
5	8144	8144	1995	Tiger Flail Mower	NO METER
10	8148	8148	1996	Tiger Flail Mower Attachment	NO METER
9	8149	8149	1996	Tiger Flail Mower	NO METER
7	8200	8200	1985	Mo-bark brush chipper	7
3	8203	8203		Slide-in Water Tank	NO METER
3	8211	8211		Disc	NO METER
10	8216	8216	1988	Swenson Salt & Sand Spreader	NO METER
3	8218	8218		Wood Chipper	16
10	8227	8227	1977	Skid MT Water Tank	NO METER
9	8233	8233	1979	Howard 3 Point Mixer	NO METER
9	8240	8240	1980	Utility Spreader	NO METER
8	8242	8242	1991	P/B Slide in Water Tank	NO METER
9	8244	8244	1991	Slide-in Water Tank	NO METER
11	8246	8246	1992	Skid Mount Water Tank	NO METER
10	8247	8247	1992	Swenson Salt & Sand Spreader	NO METER
10	8248	8248	2002	SnoWay Salt & Sand Spreader	NO METER
11	8253	8253	1984	Swenson Sand Spreader	NO METER
11	8256	8256	1982	Idaho Norland Snow Blower	76
10	8262	8262	1989	Mixer Seamax	NO METER
8	8263	8263	1989	Brush Chipper	137
10	8263	8263		Brush chipper	NO METER
11	8263	8263	1990	Bandit Brush chipper	NEW METER
7	8266	8266	1992	Water Tank	NO METER
1	8267	8267	1993	Seamon Maxon Tow Mixer	NO METER
5	8268	8268	1993	SeaMax 3 Point Mixer	NO METER

Exhibit D

**HEAVY DUTY EQUIPMENT RENTAL RATES
JULY 2009**

**AVG MONTHLY COST
FOR EQUIP CLASS
(monthly fixed rate plus
actual hrs. of operation)**

EQUIPMENT	CLASS	VENDOR	HOUR	DAY	WEEK	MONTH	
Motorgrader		Quinn Rental		\$ 480.00	\$ 1,825.00	\$ 4,850.00	
		Gen-Cal		\$ 550.00	\$ 2,200.00	\$ 6,500.00	
		Pape		\$ 725.00	\$ 2,900.00	\$ 8,700.00	
		Fresno Tractor		\$ 550.00	\$ 2,200.00	\$ 6,600.00	
		Hertz 772B		\$ 575.00	\$ 2,175.00	\$ 6,525.00	
C60		County Fleet	\$ 27.04			\$ 646.76	\$ 1,993.49
Dozer D-3		Quinn Rental		\$ -	\$ -	\$ -	
D-4		"		\$ 350.00	\$ 1,300.00	\$ 3,600.00	
D-5		"		\$ 400.00	\$ 1,500.00	\$ 4,000.00	
D-6		"		\$ 450.00	\$ 1,750.00	\$ 5,550.00	
C60		County Fleet	\$ 27.04			\$ 646.76	\$ 1,075.18
Dozer D-3		Pape		\$ 257.00	\$ 1,100.00	\$ 3,300.00	
D-4		"		\$ 330.00	\$ 1,320.00	\$ 3,950.00	
D-5		"		\$ 405.00	\$ 1,620.00	\$ 4,850.00	
D-6		"		\$ 600.00	\$ 2,400.00	\$ 7,200.00	
C60		County Fleet	\$ 27.04			\$ 646.76	\$ 1,075.18
Dozer D-3		Fresno Tractor		\$ -	\$ -	\$ -	
D-4		"		\$ 450.00	\$ 1,800.00	\$ 4,800.00	
D-5		"		\$ 600.00	\$ 2,400.00	\$ 6,500.00	
D-6		"		\$ 700.00	\$ 2,800.00	\$ 8,500.00	
C60		County Fleet	\$ 27.04			\$ 646.76	\$ 1,075.18
Dozer D-3		Hertz		\$ 315.00	\$ 1,155.00	\$ 3,465.00	
D-4		"		\$ 350.00	\$ 1,300.00	\$ 3,720.00	
D-5		"		\$ 395.00	\$ 1,435.00	\$ 4,305.00	
D-6		"		\$ 640.00	\$ 2,340.00	\$ 7,020.00	
C60		County Fleet	\$ 27.04			\$ 646.76	\$ 1,075.18
Dozer D-3		United		\$ 371.00	\$ 1,440.00	\$ 3,500.00	
D-4		"		\$ 538.00	\$ 1,881.00	\$ 4,872.00	
D-5		"		\$ 470.00	\$ 1,750.00	\$ 3,500.00	
D-6		"		\$ 495.00	\$ 2,000.00	\$ 4,000.00	
C60		County Fleet	\$ 27.04			\$ 646.76	\$ 1,075.18

**AVG MONTHLY COST
FOR EQUIP CLASS**
(monthly fixed rate plus
actual hrs. of operation)

EQUIPMENT	CLASS	VENDOR	HOUR	DAY	WEEK	MONTH		
Backhoe 310		Quinn Rentals		\$ 185.00	\$ 700.00	\$ 1,900.00		
410		"						
710		"						
	C59	County Fleet	\$ 28.31			\$ 873.88	\$	1,247.61
Backhoe 310		Gen-Cal						
410		"		\$ 214.00	\$ 737.00	\$ 2,025.00		
710		"						
	C59	County Fleet	\$ 28.31			\$ 873.88	\$	1,247.61
Backhoe 310		Pape		\$ 220.00	\$ 885.00	\$ 2,650.00		
410		"		\$ 250.00	\$ 100.00	\$ 3,000.00		
710		"		\$ 450.00	\$ 1,800.00	\$ 5,300.00		
	C59	County Fleet	\$ 28.31			\$ 873.88	\$	1,247.61
Backhoe 310		Fresno Tractor		\$ 250.00	\$ 900.00	\$ 2,700.00		
410		"		\$ 300.00	\$ 1,080.00	\$ 3,240.00		
710		"						
	C59	County Fleet	\$ 28.31			\$ 873.88	\$	1,247.61
Backhoe 310		Hertz		\$ 310.00	\$ 1,095.00	\$ 2,385.00		
410		"		\$ 310.00	\$ 1,095.00	\$ 2,985.00		
710		"		\$ 455.00	\$ 1,545.00	\$ 4,635.00		
	C59	County Fleet	\$ 28.31			\$ 873.88	\$	1,247.61
Backhoe 310		United Rental		\$ 215.00	\$ 640.00	\$ 2,400.00		
410		"		\$ 325.00	\$ 1,000.00	\$ 3,600.00		
710		"		\$ 360.00	\$ 1,100.00	\$ 2,860.00		
	C59	County Fleet	\$ 28.31			\$ 873.88	\$	1,247.61
Wheel Pull Tractor		Quinn Rentals		\$ 225.00	\$ 750.00	\$ 2,100.00		
		Fresno Tractor		\$ 168.00	\$ 675.00	\$ 1,950.00		
	C73	County Fleet	\$ 25.11			\$ 691.57	\$	1,291.31
Scraper 11 CY		Quinn Rental		\$ 600.00	\$ 2,000.00	\$ 6,000.00		
15 CY		"						
	C61	County Fleet	\$ 80.66			\$ 566.29	\$	3,699.04
Scraper 11 CY		Fresno Tractor		\$ 550.00	\$ 2,200.00	\$ 6,600.00		
15 CY		"		\$ 750.00	\$ 3,000.00	\$ 9,000.00		
	C61	County Fleet	\$ 80.66			\$ 566.29	\$	3,699.04

**AVG MONTHLY COST
FOR EQUIP CLASS**
(monthly fixed rate plus
actual hrs. of operation)

EQUIPMENT	CLASS	VENDOR	HOUR	DAY	WEEK	MONTH	
Wheel Loader 624		Quinn Rental		\$ 400.00	\$ 1,500.00	\$ 4,500.00	
644		"		\$ 500.00	\$ 1,900.00	\$ 5,100.00	
	C58	County Fleet	\$ 21.09			\$ 564.44	\$ 1,143.83
Wheel Loader 624		Cen-Cal		\$ 475.00	\$ 1,650.00	\$ 4,590.00	
644		"		\$ 546.00	\$ 1,758.00	\$ 5,040.00	
	C58	County Fleet	\$ 21.09			\$ 564.44	\$ 1,143.83
Wheel Loader 624		Pape		\$ 490.00	\$ 1,950.00	\$ 5,850.00	
644		"		\$ 600.00	\$ 2,400.00	\$ 7,200.00	
	C58	County Fleet	\$ 21.09			\$ 564.44	\$ 1,143.83
Wheel Loader 624		Fresno Tractor		\$ 475.00	\$ 1,900.00	\$ 5,100.00	
644		"		\$ 475.00	\$ 1,900.00	\$ 5,700.00	
	C58	County Fleet	\$ 21.09			\$ 564.44	\$ 1,143.83
Wheel Loader 624		Hertz		\$ 580.00	\$ 1,825.00	\$ 5,475.00	
644		"		\$ 530.00	\$ 1,975.00	\$ 5,925.00	
	C58	County Fleet	\$ 21.09			\$ 564.44	\$ 1,143.83
Wheel Loader 544		United Rental		\$ 445.00	\$ 1,740.00	\$ 4,600.00	
644		"		\$ 670.00	\$ 2,260.00	\$ 6,500.00	
	C58	County Fleet	\$ 21.09			\$ 564.44	\$ 1,143.83

Services

Trucking	\$90-\$107/hr	Depends on vendor and type of truck.
Water Truck	\$65/hr	
Traffic Striping	\$0.15-\$1.20/ft	No current contract. Rates shown are when service was last used and is dependent on type of striping requested.

Exhibit E

PUBLIC WORKS HEAVY DUTY EQUIPMENT DELETED & NOT REPLACED SINCE 2007

EQUIP NO	DESCRIPTION
7	JD Scraper (P/W Owned)
2700	GMC three way dump truck
2705	Int. 3/way dump 2 T. flatbed
2706	International 3 Way Dump
2707	F-700 Ford Flatbed
3200	Transfer
3808	Transfer Trailer
4402	685 Case International Diesel tractor
4403	Case IH 685 Wheel Tractor
4600	Ford Backhoe
4703	Ford TW-5 Wheel Tractor
4716	John Deere 4240 Wheel Tractor
4907	John Deere 4x4 tractor
4909	John Deere 4 Wheel Drive
5107	John Deere motor grader
5108	John Deere 670 Motor grader
5129	12G Cat motor grader
5406	John Deere 3 Axle Scraper
5601	Hancock Pull Scraper
7212	Ingersoll Rand Compressor
7216	Ingersoll Rand Compressor
7219	Ingersoll Rand Compressor
8236	Gradeall
8243	Swenson sand spreader
8254	Henke snow plow/ bull plow
8254	Sea Max Mixer
8261	Sea Max Mixer