

INFORMATION HANDOUT

PERMITS

CALIFORNIA
DEPARTMENT OF FISH AND GAME, STREAMBED
ALTERATION AGREEMENT

MATERIALS INFORMATION

TECHNICAL SPECIFICATION ON THE EXISTING GRUNDFOS 16 SQF-10 SOLAR FLEX
PUMP WITH ELECTRICAL POWER SOURCE INFORMATION

DEPARTMENT OF FISH AND GAME

BAY DELTA REGION

(707) 944-5520

Mailing address:

POST OFFICE BOX 47

YOUNTVILLE CALIFORNIA 94599

Street address:

7329 SILVERADO TRAIL

NAPA CALIFORNIA 94558



March 26, 2009

Chuck Morton
California Department of Transportation
111 Grand Avenue
Oakland, CA 94623

Notification Number: 1600-2009-0033-3**1602 LAKE AND STREAMBED ALTERATION AGREEMENT**

This agreement is issued by the Department of Fish and Game pursuant to Division 2, Chapter 6 of the California Fish and Game Code:

WHEREAS, the Applicant, Chuck Morton/California Department of Transportation, submitted a signed NOTIFICATION proposing to substantially divert or obstruct the natural flow of, or substantially change the bed, channel, or bank of, or use material from the streambed or lake of the following water: Russian River and Plug Creek, located in the County of Sonoma, State of California; and

WHEREAS, the Department has determined that such operations may substantially adversely affect existing fish and wildlife resources including water quality, hydrology, aquatic or terrestrial plant or animal species; and

WHEREAS, the project has undergone the appropriate review under the California Environmental Quality Act; and

WHEREAS, the Applicant shall undertake the project as proposed in the signed PROJECT DESCRIPTION and PROJECT CONDITIONS (attached). If the Applicant changes the project from that described in the PROJECT DESCRIPTION and does not include the PROJECT CONDITIONS, this agreement is no longer valid; and

WHEREAS, the agreement shall expire on December 31, 2013; with the work to occur between June 15 and October 15; and

WHEREAS, nothing in this agreement authorizes the Applicant to trespass on any land or property, nor does it relieve the Applicant of the responsibility for compliance with applicable Federal, State, or local laws or ordinances. Placement, or removal, of any material below the level of ordinary high water may come under the jurisdiction of the U. S. Army Corps of Engineers pursuant to Section 404 of the Clean Water Act;

THEREFORE, the Applicant may proceed with the project as described in the PROJECT DESCRIPTION and PROJECT CONDITIONS. A copy of this agreement, with attached PROJECT DESCRIPTION and PROJECT CONDITIONS, shall be provided to contractors and subcontractors and shall be in their possession at the work site.

Failure to comply with all conditions of this agreement may result in legal action.

This agreement is approved by:

A handwritten signature in blue ink, appearing to read "Charles Armor".

Charles Armor
Regional Manager
Bay Delta Region

cc: Melissa Escaron
Lieutenant Riske

DEPARTMENT OF FISH AND GAME

BAY DELTA REGION

(707) 944-5520

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YOUNTVILLE, CALIFORNIA 94599

Street address:

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NAPA, CALIFORNIA 94558

Notification Number: **1600-2009-0033-3****Geyserville Bridge Replacement Mitigation Planting, Sonoma County****California Department of Transportation****Attn: Chuck Morton****111 Grand Ave.****Oakland, CA 94612****PROJECT DESCRIPTION and PROJECT CONDITIONS****Description**

The California Department of Fish and Game (the Department) is issuing this Streambed Alteration Agreement (Agreement) to the California Department of Transportation (Caltrans) for the project described herein (the Project). The Project is located on State Route (SR) 128 in Sonoma County at postmile 5.42. The Project will plant replacement riparian planting as required by the Geyserville Bridge Emergency Project (Streambed Alteration Agreement #1600-2006-0098-3, Condition #15) in the event of mitigation planting failure.

Work will be conducted during the dry season between June 15th and October 15th to avoid impacts to sensitive aquatic species. No trees will be removed as a result of the Project. The Project will install and establish riparian mitigation plantings and perform invasive species management. Caltrans is required to achieve 80% survival 5 years after installation (defined as installed plant material that has vigor and is thriving), with 70% coverage attained after 3 years and 75% coverage attained after 5 years.

Planting work will include initial plant installation, adequately watering plants, in-kind replacement of unsuitable plants; weed, rodent and other pest control; mowing; *Aundo donax*, yellow star thistle, and non-native blackberry removal followed by revegetation by way of natural species recruitment; spot placement of plant materials; trash and debris removal, plant pruning and fertilizer application, plant basin mulching and installation of foliage protectors as needed.

The Project will extend the existing ¼ ton rock slope protection in Plug Creek by approximately 81 linear feet (311 cubic yards) to correct an erosive condition and repair Plug Creek to pre-construction conditions. Additionally, the Project will remove and replace a maintenance access gate and install a temporary irrigation pipe in the bridge's transverse blocking in order to carry water from a water source located on the east bank to the planting area located on the west bank.

Conditions

1. To protect sensitive aquatic resources, work within the stream/riparian corridor shall be confined to the period of June 15th to October 15th. The work period may be extended on a day-to-day basis by Melissa Escaron at 707-339-0334.
2. To ensure a successful revegetation effort, all mitigation plantings shall be monitored and maintained (including irrigation as necessary) for a period of 5 years. All planting shall have a minimum of 80% survival at the end of 5 years and shall attain 70% cover after 3 years and 75% coverage after 5 years. If the cover and/or survival requirements are not meeting these goals, Caltrans is responsible for replacement planting, additional watering, weeding, invasive exotic eradication, or any other practice, to achieve these requirements. Replacement plants shall be monitored with the same survival and growth requirements for 5 years after planting. An annual status report on the mitigation shall be provided to DFG by December 31st of each year. This report shall include the survival, percent cover, and height of both tree and shrub species. The number by species of plants replaced, an overview of the revegetation effort, and the methods used to assess these parameters shall also be included. Photos from designated photo stations shall be included.
3. All cleared material/vegetation shall be moved outside the riparian/stream zone.
4. If earthwork, clearing and grubbing, or vegetation trimming is scheduled during bird nesting season, February 15 through August 15, pre-construction surveys shall be conducted by a qualified biologist for active bird nests. The surveys shall take place within 3 days prior to the commencement of work. If nesting birds are found a 100-foot radius buffer shall be established around the nest, a 300-foot radius buffer in the case of hawks or owls. If a lapse in project-related work of 15 days or longer occurs, another survey will be required before project work can be reinitiated.
5. Should Caltrans decide to improve the access road, a plan will be submitted 30 days prior to construction for Department approval.
6. Existing culverts shall be inspected for wildlife prior to adjacent, overhead, or nearby construction. If any wildlife is encountered during the course of the inspection, said wildlife shall be allowed to leave the area unharmed, and shall be flushed, hazed, or herded in a safe direction away from the project site. This condition does not allow for the take or disturbance of any state or federally listed species, or state listed species of special concern.
7. No work shall occur in the live stream. This Agreement does not allow for dewatering or stream diversion.
8. High visibility Environmentally Sensitive Area fencing shall be installed and maintained to protect the surrounding areas from construction personnel and activities.

9. No phase of the project may be started if that phase and its associated erosion control measures cannot be completed prior to the onset of precipitation if that construction phase may cause the introduction of sediments into the stream. After any storm event, Caltrans shall inspect all sites currently under construction and all sites scheduled to begin construction within the next 72 hours for erosion and sedimentation problems and take corrective action as needed. Seventy-two-hour weather forecasts from the National Weather Service shall be consulted prior to start up of any phase of the project that may result in sediment runoff to the stream, and construction plans made to meet this condition.

10. All construction activity shall terminate at any site that has surface runoff until runoff ceases and no further storms are forecast for the following 24-hour period.

11. Staging and storage areas for equipment, materials, fuels, lubricants and solvents, shall be located outside of the stream channel and banks, avoiding areas of concentrated ground squirrel burrows. Stationary equipment such as motors, pumps, generators, compressors and welders, located within or adjacent to the stream shall be positioned over drip-pans. Any equipment or vehicles driven and/or operated within or adjacent to the stream must be checked and maintained daily, to prevent leaks of materials that if introduced to water could be deleterious to aquatic life. No fueling, cleaning, or maintenance of vehicles or equipment shall take place within any areas where an accidental discharge to a watercourse may occur, vehicles must be moved away from the stream prior to refueling and lubrication.

12. Erosion control measures shall be utilized throughout all phases of operation where sediment runoff from exposed slopes threatens to enter waterways. At no time shall silt laden runoff be allowed to enter the stream or directed to where it may enter the stream. Only clean rocks and boulders shall be used for the project. Erosion control structures and BMPs shall be monitored for effectiveness and shall be repaired or replaced as needed. Build up of soil behind the fence shall be removed promptly and any breaches or undermined areas repaired at once.

13. All exposed/disturbed areas and access points within the stream zone left barren of vegetation as a result of the construction activities shall be restored by seeding with a blend native and non-native erosion control grass seeds. Seeded areas shall be mulched. All other areas of disturbed soil which drain toward the stream channel shall be seeded with erosion control grass seeds. Revegetation shall be completed as soon as possible after construction activities in those areas cease. Seeding placed after October 15 must be covered with broadcast straw, jute netting, coconut fiber blanket or similar erosion control blanket. Plastic mono-filament netting, or other erosion control matting that has the potential to entangle amphibians and reptiles, shall not be used.

14. Building materials and/or construction equipment shall not be stockpiled or stored where they could be washed into the water or where they will cover aquatic or riparian vegetation.

15. Debris, soil, silt, bark, rubbish, creosote-treated wood, raw cement/concrete or washings thereof, asphalt, paint or other coating material, oil or other petroleum products, or any other

substances which could be hazardous to aquatic life, resulting from project related activities, shall be prevented from contaminating the soil and/or entering the stream. Any of these materials, placed within or where they may enter a stream or lake, by Caltrans or any party working under contract, or with the permission of Caltrans, shall be removed immediately.

16. The contractor shall not dump any litter or construction debris within the riparian/stream zone. All such debris and waste shall be picked up daily and properly disposed of at an appropriate site.

17. This agreement does not authorize the take of any state or federally listed species. Liability for any take or incidental take of such listed species remains the responsibility of Caltrans for the duration of the project. Any unauthorized take of such listed species may result in prosecution and nullification of the agreement.

18. If any sensitive species are observed in project surveys, Caltrans shall submit California Natural Diversity Data Base (CNDDDB) forms to the CNDDDB for all preconstruction survey data within five working days of the sightings, and provide DFG Region 3 with copies of the CNDDDB forms and survey maps.

19. To the extent that any provisions of this Agreement provide for activities that require Caltrans to traverse another owner's property, such provisions are agreed to with the understanding that Caltrans possesses the legal right to so traverse. In the absence of such right, any such provision is void.

20. In the event that the project scope, nature, or environmental impact is altered by the imposition of subsequent permit conditions by any local, state or federal regulatory authority Caltrans shall notify the Department of any imposed project modifications that interfere with compliance to Department conditions.

If Caltrans needs more time to complete the authorized activity, the work period may be extended on a day-to-day basis by contacting Melissa Escaron at (707) 339-0334 or the Yountville office at (707) 944-5520.

A copy of this Agreement must be provided to the contractor and all subcontractors who work within the stream zone and must be in their possession at the work site.

Department personnel or its agents may inspect the work site at any time.

Caltrans is liable for compliance with the terms of this Agreement, including violations committed by the contractors and/or subcontractors. The Department reserves the right to suspend construction activity described in this Agreement if the Department determines any of the following has occurred:

- A). Failure to comply with any of the conditions of this Agreement
- B). Information provided in support of the Agreement is determined by the Department to be inaccurate.

C). Information becomes available to the Department that was not known when preparing the original conditions of this Agreement (including, but not limited to, the occurrence of state or federally listed species in the area or risk to resources not previously observed)

D). The project as described in the Agreement has changed or conditions affecting fish and wildlife resources change.

Any violation of the terms of this Agreement may result in the project being stopped, a citation being issued, or charges being filed with the District Attorney. Contractors and subcontractors may also be liable for violating the conditions of this agreement.

Amendments and Extensions

Caltrans shall notify the Department before any modifications are made in the project plans submitted to the Department. Project modifications may require an amendment or a new notification.

This Agreement is transferable to subsequent owners of the project property by requesting an amendment.

To extend the Agreement beyond the expiration date, a written request or completed "Request to Extend Lake or Streambed Alteration Agreement" form, with an appropriate fee, must be submitted to the Department (1600 Program, Post Office Box 47, Yountville, California 94599) for consideration at least 30 days before the Agreement expiration date. An extension requires a fee. The Fee Schedule and Extension form can be obtained at HYPERLINK "<http://www.dfg.ca.gov/habcon/1600/Forms.html>" www.dfg.ca.gov/habcon/1600/Forms.html or by phone at (707) 944-5520. Extensions of the original Agreement are issued at the discretion of the Department.

To modify the project, a written request for an amendment or a completed "Request to Amend Lake or Streambed Alteration Agreement" form, with an appropriate fee, must be submitted to the Department (1600 Program, Post Office Box 47, Yountville, California 94599). An amendment requires a fee. The Fee Schedule and Amendment form can be obtained at HYPERLINK "<http://www.dfg.ca.gov/habcon/1600/Forms.html>" www.dfg.ca.gov/habcon/1600/Forms.html or by phone at (707) 944-5520. Amendments to the original Agreement are issued at the discretion of the Department. To modify the project, a written request for an amendment must be submitted to the Department (1600 Program, Post Office Box 47, Yountville, California 94599). The fee for an amendment is one-half (½) of the original fee. Amendments to the original Agreement are issued at the discretion of the Department.

Please note that you may not proceed with construction until your proposed project has undergone CEQA review and the Department signs the Agreement.

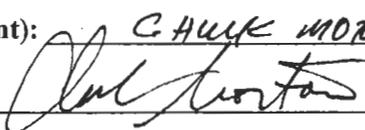
I, the undersigned, state that the above is the final description of the project I am submitting to the Department for CEQA review, leading to an Agreement, and agree to

implement the conditions above required by the Department as part of that project. I will not proceed with this project until the Department signs the Agreement. I also understand that the CEQA review may result in the addition of measures to the project to avoid, minimize, or compensate for significant environmental impacts:

Applicant's name (print):

CHUCK MORTON

Applicant's signature:



Signed the

19th

day of

March

, 2009



FOR DEPARTMENT USE ONLY

Date Received	Amount Received	Amount Due	Date Complete	Notification No.
2/2/09	\$4,000.00	\$		1600-2009-0033-3



OK # 082-300065
 CA Dept of Transportation

STATE OF CALIFORNIA
 DEPARTMENT OF FISH AND GAME

Escaron
 Ruske



NOTIFICATION OF LAKE OR STREAMBED ALTERATION

Complete EACH field, unless otherwise indicated, following the enclosed instructions and submit ALL required enclosures. Attach additional pages, if necessary.

1. APPLICANT PROPOSING PROJECT

Name	Chuck Morton			FISH & GAME	
Business/Agency	Caltrans			FEB 02 2009	
Street Address	111 Grand Avenue, 6th Floor, Maintenance Services			YOUNTVILLE	
City, State, Zip	Oakland, CA, 94623-0660				
Telephone	(510) 286-5016	Fax	(510) 286-4482		
Email	Chuck.Morton@dot.ca.gov				

2. CONTACT PERSON (Complete only if different from applicant)

Name					
Street Address					
City, State, Zip					
Telephone		Fax			
Email					

3. PROPERTY OWNER (Complete only if different from applicant)

Name					
Street Address					
City, State, Zip					
Telephone		Fax			
Email					

4. PROJECT NAME AND AGREEMENT TERM

A. Project Name		Russian River/Plug Creek Geyserville Bridge Highway Planting Restoration Project			
B. Agreement Term Requested		<input checked="" type="checkbox"/> Regular (5 years or less) <input type="checkbox"/> Long-term (greater than 5 years)			
C. Project Term		D. Seasonal Work Period		E. Number of Work Days	
Beginning (year)	Ending (year)	Start Date (month/day)	End Date (month/day)		
2009	2015	06/15	10/31	120.00	

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

5. AGREEMENT TYPE

Check the applicable box. If box B, C, D, or E is checked, complete the specified attachment.

A.	<input checked="" type="checkbox"/> Standard (Most construction projects, excluding the categories listed below)
B.	<input type="checkbox"/> Gravel/Sand/Rock Extraction (Attachment A) Mine I.D. Number: _____
C.	<input type="checkbox"/> Timber Harvesting (Attachment B) THP Number: _____
D.	<input type="checkbox"/> Water Diversion/Extraction/Impoundment (Attachment C) SWRCB Number: _____
E.	<input type="checkbox"/> Routine Maintenance (Attachment D)
F.	<input type="checkbox"/> DFG Fisheries Restoration Grant Program (FRGP) FRGP Contract Number: _____
G.	<input type="checkbox"/> Master
H.	<input type="checkbox"/> Master Timber Harvesting

6. FEES

Please see the current fee schedule to determine the appropriate notification fee. Itemize each project's estimated cost and corresponding fee. **Note: The Department may not process this notification until the correct fee has been received.**

	A. Project	B. Project Cost	C. Project Fee
1	Russian River/Plug Creek Geyserville Bridge Mit. Vegetation Repair Project	\$860,000.00	\$4,000.00
2			
3			
4			
5			
		D. Base Fee (if applicable)	
		E. TOTAL FEE ENCLOSED	\$4,000.00

7. PRIOR NOTIFICATION OR ORDER

A. Has a notification previously been submitted to, or a Lake or Streambed Alteration Agreement previously been issued by, the Department for the project described in this notification?

Yes (Provide the information below) No

Applicant: Chuck Morton, Caltrans Notification Number: 1602-2006-0098-03 Date: _____

B. Is this notification being submitted in response to an order, notice, or other directive ("order") by a court or administrative agency (including the Department)?

No Yes (Enclose a copy of the order, notice, or other directive. If the directive is not in writing, identify the person who directed the applicant to submit this notification and the agency he or she represents, and describe the circumstances relating to the order.)

Continued on additional page(s)

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

8. PROJECT LOCATION

A. Address or description of project location. (Include a map that marks the location of the project with a reference to the nearest city or town, and provide driving directions from a major road or highway)				
See attached plans				
<input type="checkbox"/> Continued on additional page(s)				
B. River, stream, or lake affected by the project.		Plug Creek		
C. What water body is the river, stream, or lake tributary to?		Tributary of the Russian River		
D. Is the river or stream segment affected by the project listed in the state or federal Wild and Scenic Rivers Acts?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown		
E. County	Sonoma			
F. USGS 7.5 Minute Quad Map Name	G. Township	H. Range	I. Section	J. ¼ Section
Geyserville				
<input type="checkbox"/> Continued on additional page(s)				
K. Meridian (check one)	<input type="checkbox"/> Humboldt <input checked="" type="checkbox"/> Mt. Diablo <input type="checkbox"/> San Bernardino			
L. Assessor's Parcel Number(s)				
140-230-ROW Caltrans (State of California)				
<input type="checkbox"/> Continued on additional page(s)				
M. Coordinates (If available, provide at least latitude/longitude or UTM coordinates and check appropriate boxes)				
Latitude/Longitude	Latitude:	38° 42' 7.1"	Longitude:	122° 53' 39.0"
	<input checked="" type="checkbox"/> Degrees/Minutes/Seconds <input type="checkbox"/> Decimal Degrees <input type="checkbox"/> Decimal Minutes			
UTM	Easting:	Northing:	<input type="checkbox"/> Zone 10 <input type="checkbox"/> Zone 11	
Datum used for Latitude/Longitude or UTM		<input type="checkbox"/> NAD 27 <input checked="" type="checkbox"/> NAD 83 or WGS 84		

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

9. PROJECT CATEGORY AND WORK TYPE *(Check each box that applies)*

PROJECT CATEGORY	NEW CONSTRUCTION	REPLACE EXISTING STRUCTURE	REPAIR/MAINTAIN EXISTING STRUCTURE
Bank stabilization – bioengineering/recontouring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bank stabilization – rip-rap/retaining wall/gabion	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boat dock/pier	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Boat ramp	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bridge	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Channel clearing/vegetation management	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Culvert	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Debris basin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Diversion structure – weir or pump intake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Filling of wetland, river, stream, or lake	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Geotechnical survey	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Habitat enhancement – revegetation/mitigation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Levee	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Low water crossing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Road/trail	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sediment removal – pond, stream, or marina	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Storm drain outfall structure	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporary stream crossing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Utility crossing : Horizontal Directional Drilling	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jack/bore	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Open trench	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

10. PROJECT DESCRIPTION

A. Describe the project in detail. Photographs of the project location and immediate surrounding area should be included.

- Include any structures (e.g., rip-rap, culverts, or channel clearing) that will be placed, built, or completed in or near the stream, river, or lake.
- Specify the type and volume of materials that will be used.
- If water will be diverted or drafted, specify the purpose or use.

Enclose diagrams, drawings, plans, and/or maps that provide all of the following: site specific construction details; the dimensions of each structure and/or extent of each activity in the bed, channel, bank or floodplain; an overview of the entire project area (i.e., "bird's-eye view") showing the location of each structure and/or activity, significant area features, and where the equipment/machinery will enter and exit the project area.

The project proposes to install and establish restorative riparian zone planting and perform invasive species management/exotic weed control in Sonoma County in the unincorporated area of Geyserville, on Route 128, from River Lane to River Road (PM 5.42/5.65) at the Russian River Bridge (Br No. 20-0288). This project is required to ensure 80% success (defined as installed plant material that has vigor and is thriving) of the restoration work five years after plant material installation as required by the Streambed Alteration Agreement entered into with the California Department of Fish and Game to mitigate for construction related impacts as part of the parent emergency bridge construction project (EA 2S9404).

Proposed planting work includes, but is not limited to, initial plant installation, caring for the riparian zone planting to adequately water plants; in-kind replacement of unsuitable plants; weed, rodent and other pest control; mowing; Arundo donax (Giant Reed), yellow star thistle and non-native blackberry removal followed by revegetation by way of natural species recruitment, spot placement of plant materials or by other means; trash and debris removal, plant pruning and fertilizer application, plant basin mulching and installation of foliage protectors as needed or as determined necessary during the establishment period.

Additional elements of proposed Project includes; preparation of subbase and installation of a concrete cellular turf block maintenance access road at the northeast quadrant to access river bed from State Route 128 (see LD-2), removal and replacement of a maintenance access gate at proposed access road and State Route 128, extension of rock slope protection in existing Plug Creek to correct an erosive condition and repair Plug Creek to pre-construction condition, and installation of a temporary irrigation pipe in the Bridge's transverse blocking in order to carry water from a water source on the east bank to planting areas on the west bank.

Continued on additional page(s)

B. Specify the equipment and machinery that will be used to complete the project.

Excavator, bobcat, front end loader, dump truck, utility trucks, water truck, water buffalo

Continued on additional page(s)

C. Will water be present during the proposed work period (specified in box 4.D) in the stream, river, or lake (specified in box 8.B).

Yes No (Skip to box 11)

D. Will the proposed project require work in the wetted portion of the channel?

Yes (Enclose a plan to divert water around work site)
 No

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

11. PROJECT IMPACTS

A. Describe impacts to the bed, channel, and bank of the river, stream, or lake, and the associated riparian habitat. Specify the dimensions of the modifications in length (linear feet) and area (square feet or acres) and the type and volume of material (cubic yards) that will be moved, displaced, or otherwise disturbed, if applicable.

Replacement of RSP on the banks and flow line of Plug Creek will prevent further bank erosion under flow. Installation of the plant material will replace material that failed/died after original planting. See sheets LD-1 for the RSP detail and sheets PP-1 through PP-3 for the plant installation detail.

Continued on additional page(s)

B. Will the project affect any vegetation? Yes (Complete the tables below) No

Vegetation Type	Temporary Impact	Permanent Impact
	Linear feet: _____ Total area: _____	Linear feet: _____ Total area: _____
	Linear feet: _____ Total area: _____	Linear feet: _____ Total area: _____

Tree Species	Number of Trees to be Removed	Trunk Diameter (range)

Continued on additional page(s)

C. Are any special status animal or plant species, or habitat that could support such species, known to be present on or near the project site?

Yes (List each species and/or describe the habitat below) No Unknown

Continued on additional page(s)

D. Identify the source(s) of information that supports a "yes" or "no" answer above in Box 11.C.

Please review the original NES that was prepared during the emergency project in 2006. Reference 1600-2006-0098-03. This response also applies for Question E below.

Continued on additional page(s) ⁺

E. Has a biological study been completed for the project site?

Yes (Enclose the biological study) No

Note: A biological assessment or study may be required to evaluate potential project impacts on biological resources.

F. Has a hydrological study been completed for the project or project site?

Yes (Enclose the hydrological study) No

Note: A hydrological study or other information on site hydraulics (e.g., flows, channel characteristics, and/or flood recurrence intervals) may be required to evaluate potential project impacts on hydrology.

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

12. MEASURES TO PROTECT FISH, WILDLIFE, AND PLANT RESOURCES

A. Describe the techniques that will be used to prevent sediment from entering watercourses during and after construction.

Standard Caltrans construction Best Management Practices will be implemented during the installation of the RSP and the plant installation.

Continued on additional page(s)

B. Describe project avoidance and/or minimization measures to protect fish, wildlife, and plant resources.

All activities will be designed to avoid any impacts to fish (all work done in the dry), wildlife (work will be done in an already disturbed area) and plant resources (this is a planting project that will replace non-vigorous plant material with new material).

Continued on additional page(s)

C. Describe any project mitigation and/or compensation measures to protect fish, wildlife, and plant resources.

This is the mitigation portion of the Emergency project conducted in 2006.

Continued on additional page(s)

13. PERMITS

List any local, state, and federal permits required for the project and check the corresponding box(es). Enclose a copy of each permit that has been issued.

- A. ACE NWP #3 (non-reporting) (Maintenance of existing facilities) (in process) Applied Issued
- B. _____ Applied Issued
- C. _____ Applied Issued
- D. Unknown whether local, state, or federal permit is needed for the project. (Check each box that applies)

Continued on additional page(s)

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

14. ENVIRONMENTAL REVIEW

<p>A. Has a draft or final document been prepared for the project pursuant to the California Environmental Quality Act (CEQA), National Environmental Protection Act (NEPA), California Endangered Species Act (CESA) and/or federal Endangered Species Act (ESA)?</p>			
<p><input checked="" type="checkbox"/> Yes (Check the box for each CEQA, NEPA, CESA, and ESA document that has been prepared and enclose a copy of each)</p> <p><input type="checkbox"/> No (Check the box for each CEQA, NEPA, CESA, and ESA document listed below that will be or is being prepared)</p>			
<input type="checkbox"/> Notice of Exemption	<input type="checkbox"/> Mitigated Negative Declaration	<input type="checkbox"/> NEPA document (type): _____	
<input type="checkbox"/> Initial Study	<input type="checkbox"/> Environmental Impact Report	<input type="checkbox"/> CESA document (type): _____	
<input type="checkbox"/> Negative Declaration	<input type="checkbox"/> Notice of Determination (Enclose)	<input type="checkbox"/> ESA document (type): _____	
<input type="checkbox"/> THP/ NTMP	<input type="checkbox"/> Mitigation, Monitoring, Reporting Plan		
B. State Clearinghouse Number (if applicable)			
C. Has a CEQA lead agency been determined?		<input checked="" type="checkbox"/> Yes (Complete boxes D, E, and F) <input type="checkbox"/> No (Skip to box 14.G)	
D. CEQA Lead Agency	Caltrans		
E. Contact Person	Chuck Morton	F. Telephone Number	(510) 715-6416
G. If the project described in this notification is part of a larger project or plan, briefly describe that larger project or plan.			
<input type="checkbox"/> Continued on additional page(s)			
H. Has an environmental filing fee (Fish and Game Code section 711.4) been paid?			
<p><input type="checkbox"/> Yes (Enclose proof of payment) <input checked="" type="checkbox"/> No (Briefly explain below the reason a filing fee has not been paid)</p> <p>Extension of expired 1600-2006-0098-03 as amended.</p>			
<p><i>Note: If a filing fee is required, the Department may not finalize a Lake or Streambed Alteration Agreement until the filing fee is paid.</i></p>			

15. SITE INSPECTION

Check one box only.	
<p><input type="checkbox"/> In the event the Department determines that a site inspection is necessary, I hereby authorize a Department representative to enter the property where the project described in this notification will take place at any reasonable time, and hereby certify that I am authorized to grant the Department such entry.</p>	
<p><input checked="" type="checkbox"/> I request the Department to first contact (insert name) <u>Chuck Morton</u></p> <p>at (insert telephone number) <u>(510) 715-6416</u> to schedule a date and time to enter the property where the project described in this notification will take place. I understand that this may delay the Department's determination as to whether a Lake or Streambed Alteration Agreement is required and/or the Department's issuance of a draft agreement pursuant to this notification.</p>	

NOTIFICATION OF LAKE OR STREAMBED ALTERATION

16. DIGITAL FORMAT

Is any of the information included as part of the notification available in digital format (i.e., CD, DVD, etc.)?

- Yes (Please enclose the information via digital media with the completed notification form)
- No

17. SIGNATURE

I hereby certify that to the best of my knowledge the information in this notification is true and correct and that I am authorized to sign this notification as, or on behalf of, the applicant. I understand that if any information in this notification is found to be untrue or incorrect, the Department may suspend processing this notification or suspend or revoke any draft or final Lake or Streambed Alteration Agreement issued pursuant to this notification. I understand also that if any information in this notification is found to be untrue or incorrect and the project described in this notification has already begun, I and/or the applicant may be subject to civil or criminal prosecution. I understand that this notification applies only to the project(s) described herein and that I and/or the applicant may be subject to civil or criminal prosecution for undertaking any project not described herein unless the Department has been separately notified of that project in accordance with Fish and Game Code section 1602 or 1611.



Signature of Applicant or Applicant's Authorized Representative

01/21/09

Date

Chuck Morton, District Branch Chief, Caltrans

Print Name

Project: -
 Reference number: -

Client: -
 Client number: -
 Contact: -

Position	Count	Description	Unit price
	1	<p>16 SQF-10 Product No.: 95027350</p> <p>The 4" SQF centrifugal pump is for low heads and large flows.</p> <p>Features and benefits: -Dry-running protection -High efficiency permanent-magnet motor (PM motor) -Over- and undervoltage protection -Overload protection -Maximum Power Point Tracking (MPPT) -Wide voltage range</p> <p>Liquid: Maximum liquid temperature: 104 °F Liquid temp: 68 °F Density: 62.29 lb/ft³</p> <p>Technical: Approvals on motor nameplate: CE</p> <p>Materials: Pump: Stainless steel DIN W.-Nr. 1.4301 AISI 304 Impeller: Stainless steel DIN W.-Nr. 1.4301 AISI 304</p> <p>Installation: Maximum ambient pressure: 218 psi Pump outlet: 1,25 NPT" Minimum borehole diameter: 4.02 in \:</p> <p>Electrical data: Motor type: MSF3 Power input - P1: 1.4 kW Rated voltage AC: 1 x 90-240 V Rated voltage DC: 30-300 V Start. method: direct-on-line Rated current: 8.4 A Power factor: 1 Rated speed: 500-3600 rpm Enclosure class (IEC 34-5): 68 Insulation class (IEC 85): F Length of cable: 6.562 ft</p> <p>Others:</p>	On request



Company name: -
Created by: -
Phone: -
Fax: -
Date: -

Project: -
Reference number: -

Client: -
Client number: -
Contact: -

<i>Position</i>	<i>Count</i>	<i>Description</i>	<i>Unit price</i>
		Net weight: 20.9 lb Gross weight: 24.3 lb Shipping volume: 1 ft ³	



Company name: -
 Created by: -
 Phone: -
 Fax: -
 Date: -

Project: -
 Reference number: -

Client: -
 Client number: -
 Contact: -

Position	Count	Description	Unit price
	1	<p>16 SQF-10</p>  <p>Product photo could vary from the actual product</p> <p>Product No.: 95027350</p> <p>The 4" SQF centrifugal pump is for low heads and large flows.</p> <p>Features and benefits:</p> <ul style="list-style-type: none"> -Dry-running protection -High efficiency permanent-magnet motor (PM motor) -Over- and undervoltage protection -Overload protection -Maximum Power Point Tracking (MPPT) -Wide voltage range <p>Liquid: Maximum liquid temperature: 104 °F Liquid temp: 68 °F Density: 62.29 lb/ft³</p> <p>Technical: Approvals on motor nameplate: CE</p> <p>Materials:</p> <p>Pump: Stainless steel DIN W.-Nr. 1.4301 AISI 304</p> <p>Impeller: Stainless steel DIN W.-Nr. 1.4301 AISI 304</p> <p>Installation:</p> <p>Maximum ambient pressure: 218 psi Pump outlet: 1,25 NPT" Minimum borehole diameter: 4.02 in</p>	On request



Company name: -
 Created by: -
 Phone: -
 Fax: -
 Date: -

Project: -
 Reference number: -

Client: -
 Client number: -
 Contact: -

Position	Count	Description	Unit price
		\: Electrical data: Motor type: MSF3 Power input - P1: 1.4 kW Rated voltage AC: 1 x 90-240 V Rated voltage DC: 30-300 V Start. method: direct-on-line Rated current: 8.4 A Power factor: 1 Rated speed: 500-3600 rpm Enclosure class (IEC 34-5): 68 Insulation class (IEC 85): F Length of cable: 6.562 ft Others: Net weight: 20.9 lb Gross weight: 24.3 lb Shipping volume: 1 ft³	

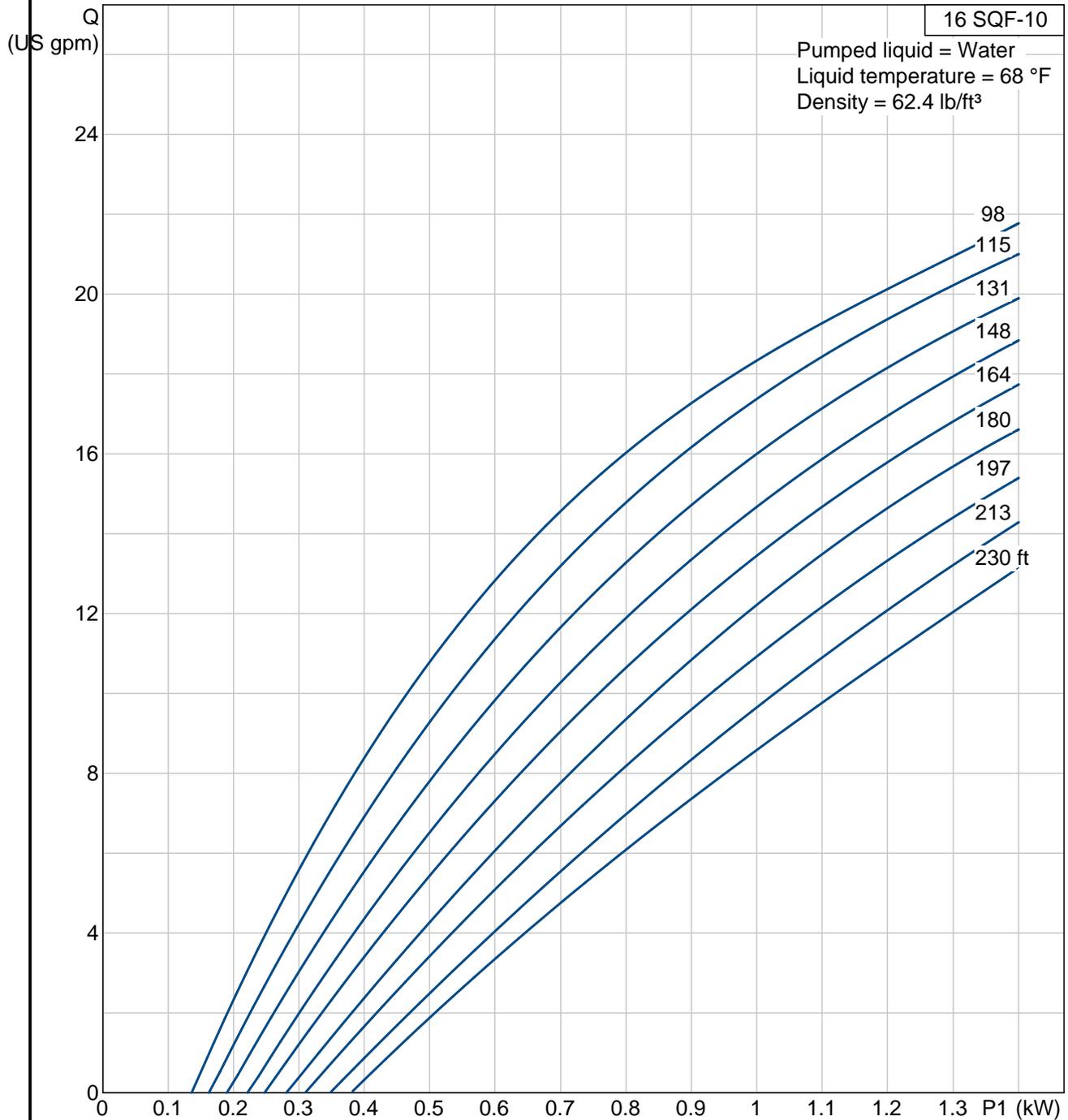


Company name: -
Created by: -
Phone: -
Fax: -
Date: -

Project: -
Reference number: -

Client: -
Client number: -
Contact: -

95027350 16 SQF-10 60 Hz



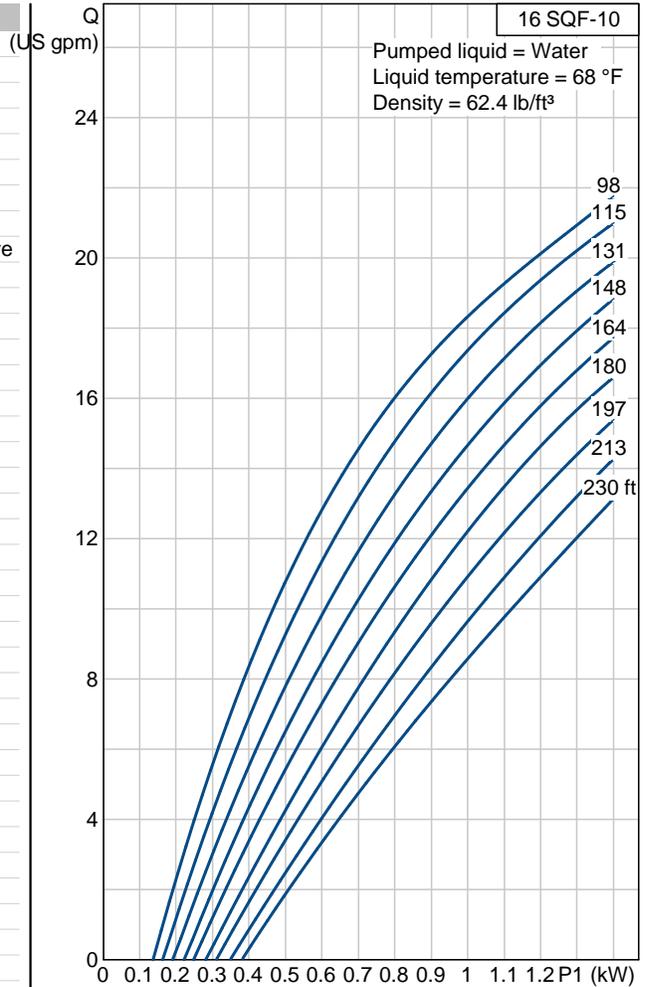


Company name: -
 Created by: -
 Phone: -
 Fax: -
 Date: -

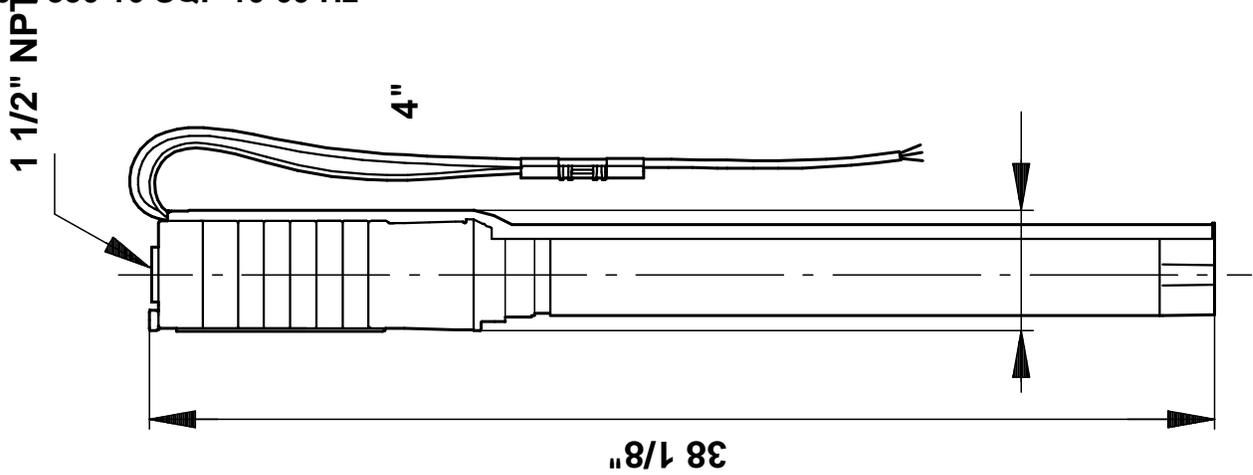
Project: -
 Reference number: -

Client: -
 Client number: -
 Contact: -

Description	Value
Product name:	16 SQF-10
Product No.:	95027350
EAN:	5700834760457
Technical:	
Approvals on motor nameplate:	CE
Pump Number:	95027386
Stages:	10
Valve:	pump with built-in non-return valve
Materials:	
Pump:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Impeller:	Stainless steel DIN W.-Nr. 1.4301 AISI 304
Rotor:	DIN W.-Nr. 1.4301 AISI 304
Stator:	DIN W.-Nr. 1.4301 AISI 304
Installation:	
Maximum ambient pressure:	218 psi
Pump outlet:	1,25 NPT"
Minimum borehole diameter:	4.02 in
Liquid:	
Maximum liquid temperature:	104 °F
Liquid temp:	68 °F
Density:	62.29 lb/ft³
Electrical data:	
Motor type:	MSF3
Power input - P1:	1.4 kW
Rated voltage AC:	1 x 90-240 V
Rated voltage DC:	30-300 V
Start. method:	direct-on-line
Rated current:	8.4 A
Power factor:	1
Rated speed:	500-3600 rpm
Enclosure class (IEC 34-5):	68
Insulation class (IEC 85):	F
Motor protection:	Y
Thermal protec:	internal
Length of cable:	6.562 ft
Motor Number:	96275336
Others:	
Net weight:	20.9 lb
Gross weight:	24.3 lb
Shipping volume:	1 ft³
Sales region:	N-amreg

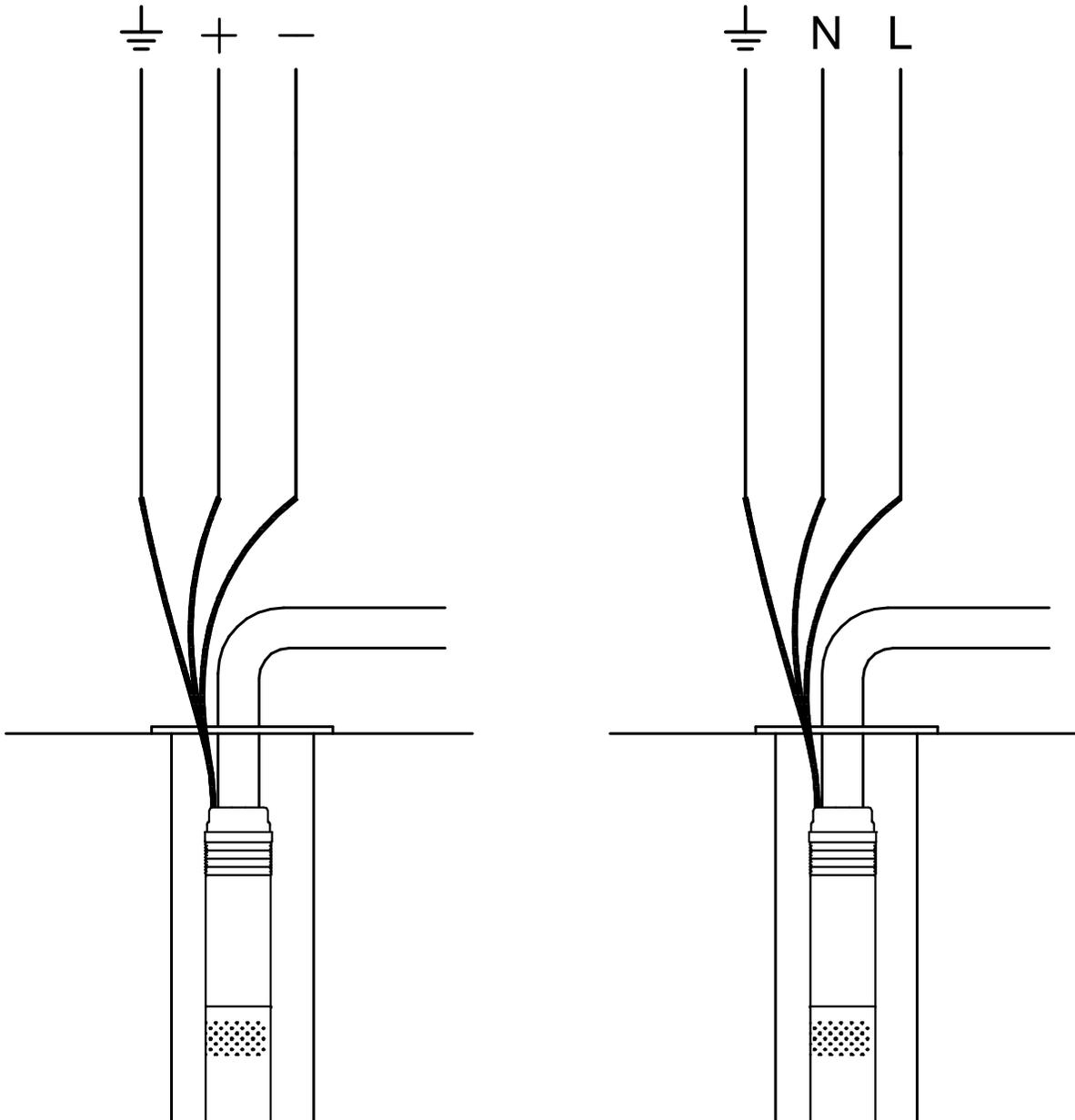


95027350 16 SQF-10 60 Hz



Note! All units are in [mm] unless others are stated.
Disclaimer: This simplified dimensional drawing does not show all details.

95027350 16 SQF-10 60 Hz



All units are [mm] unless otherwise presented.



Company name: -
Created by: -
Phone: -
Fax: -
Date: -

Project: -
Reference number: -

Client: -
Client number: -
Contact: -

Order Data:

16 SQF-10

Amount: 1

Product No.: 95027350

Total: Price on request

Groundwater

home

< Back



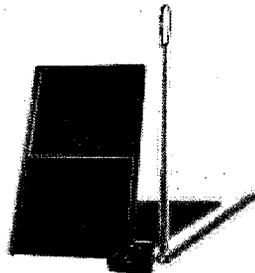
GRUNDFOS

Print

SQFlex - Energy Source

In the middle of nowhere, the only things you can depend upon are air and daylight. The SQFlex pump is fully operational from only one or, for greater peace-of-mind, a combination of these sources. SQFlex Solar and Wind systems are reliable, low-maintenance and cost-effective. In all systems are sustainable and totally environmental sound.

PUMP
16 SQF
Solar Flex
w/IO DISCONNECT
MODULE



SQFlex Solar

Installing the SQFlex Solar requires no special tools as the Grundfos solar panels plug straight into the system. The SQFlex Solar is cheap to run and virtually maintenance-free. [Click here to see energy performance chart.](#)

Power Supply

30VDC → 300VDC
90VAC → 240VAC



SQFLEX WIND

Equally cost-effective and easy to install, the SQFlex Wind is particularly suitable for open fields, valleys and landscapes where the wind blows constantly. The complicated process of converting wind energy to kinetic energy has been made easy and very reliable with the addition of sophisticated components. [Click here to see energy performance chart.](#)

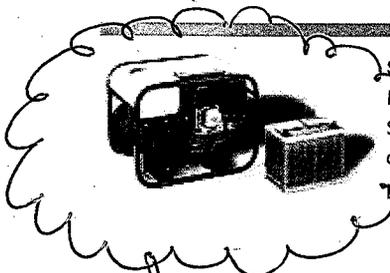
* SOLAR/WIND
* DC SYSTEM MAY
NEED BATTERY BANK
BACK-UP



SQFLEX COMBO

Two energy sources: solar panels for when the sun is shining; a wind turbine for when the wind is blowing. The added benefits of the SQFlex Combo are even greater reliability and water whenever it's needed.

* AC-GENERATOR
N/A FUEL
DIESEL



SQFlex BackUp

Natural energy rarely runs low, but if it ever does, both the SQFlex Solar and Wind systems can fall back on generator power, fuel cells or batteries. Integrated design makes changing between power supplies very easy.

EASIEST SOLUTION FOR CALTRANS
ORIGINAL CONTRACT TO INSURE
SYSTEM SUCCESS.

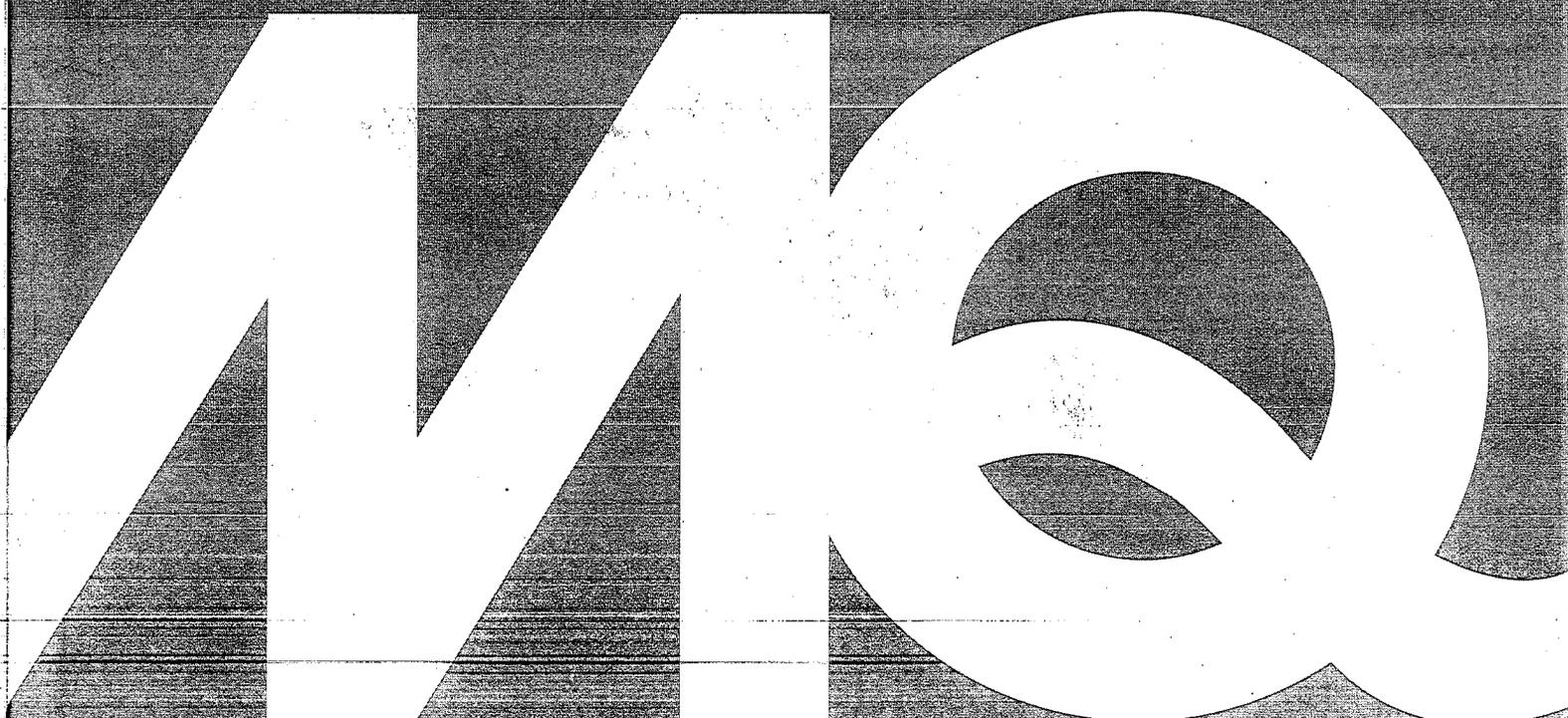


REF. No. A5844300804

A.C. GENERATORS

**OPERATING INSTRUCTIONS
& PARTS MANUAL**

DA - 7000SSA



3. SPECIFICATIONS

3.1 Specification Table

Model		DA-7000SSA
GENERATOR	Type	New brush-less revolving-field, solid-state statically excited system
	Max. Output (W)	7000
	Cont. Output(W)	6000
	Voltage (V)	120/240
	Phase	Single phase (4-wires)
	Frequency (Hz)	60
	Speed (rpm)	3600
	Power Factor (%)	100
ENGINE	Model	KUBOTA Z482
	Type	Water-cooled diesel engine.
	No. of cylinders	2
	Bore × Stroke (in)	2.64 × 2.68
	Total Displacement (Cu. in)	29.2
	Max. Output (HP/rpm)	11.9/3600
	Fuel	Diesel fuel
	Fuel Tank Capacity (U.S.Gal)	Approx.6.6
	Lube Oil Capacity (Pints)	4-11/25
	Speed Control Method	Centrifugal fly-weight type
	Starting Method	Electric Start

* Battery Specification : 12 volts, 35Amp hours

The max. output of the engine listed above is applicable to supplying electrical power for continuous service at ambient conditions in accordance with SAE Test Cord J607. The above ambient condition is a standard sea level barometer reading of 29.92 inch and temperature of 60° F.

Generally, engine output power will decrease 3 1/2% for each 1000 feet of altitude above sea level, and for each 10° F above the standard temperature of 60° F.

5.5 Extension Cable

When electric power is to be provided to various tools or loads at some distance from the generating set, extension cables are normally used. Cables should be sized to allow for distance in length and amperage so

that the voltage drop between the set and point of use is held to a minimum. The Cable Selecting Table (Chart 1) below is furnished as a guide for selecting proper size cable.

Chart1 Cable Selecting Table

Current in Amperes	LOAD IN WATTS		MAXIMUM ALLOWABLE CABLE LENGTH			
	At 120 Volts	At 240 Volts	# 10 Wire	# 12 Wire	# 14 Wire	# 16 Wire
2.5	300	600	1000 ft.	600 ft.	375 ft.	250 ft.
5	600	1200	500 ft.	300 ft.	200 ft.	125 ft.
7.5	900	1800	350 ft.	200 ft.	125 ft.	100 ft.
10	1200	2400	250 ft.	150 ft.	100 ft.	
15	1800	3600	150 ft.	100 ft.	65 ft.	
20	2400	4800	125 ft.	75 ft.	50 ft.	
30	3600	7200	75 ft.	50 ft.	35 ft.	

CUTION

Equipment damage can result from low voltage.

5.6 Lubricating Oil

Fill the engine crankcase with lubricating oil through the filler hole, but do not overfill.

Make sure the generating set is level. With the dipstick inserted all the way, but without being screwed into the filler hole, see that the oil level is maintained between the two notches on the dipstick.

The oil listed in Chart 2 and Chart 3 is recommended to ensure better engine performance.

NOTE

Oil used in the engine should have API classification and proper SAE Engine Oil Viscosity according to the ambient temperatures where the engine is operated.

With strict emission control regulations now in effect, the CF-4 and CG-4 engine oils have been developed for use with low sulfur fuels, for On-Highway vehicle engines.

When a Non-Road engine runs on high sulfur fuel, it is advisable to use a "CF or better" classification engine oil with a high Total Base Number (a minimum TBN of 10 is recommended.)

5.7 Fuel

Fill the fuel tank with clean and fresh diesel fuel. Do not overfill the fuel tank.

Pay attention to the fuel tank capacity when replenishing (refer to the fuel tank capacity listed on page 6; Specification Table).

The fuel tank cap must be closed tightly after filling. Handle fuel in a safety container. If the container does not have spout, use a funnel.

NOTE

Cetane Rating :
The minimum recommended Fuel Cetane Rating is 45.
A cetane rating greater than 50 is preferred, especially for ambient temperatures below -20°C (-4°F) or elevations above 1500 m (5000ft).

Diesel Fuel Specification Type and Sulfur Content % (ppm) used, must be compliant with all applicable emission regulations for the area in which the engine is operated.

Use of diesel fuel with sulfur content less than 0.10 % (1000 ppm) is strongly recommended.

If high-sulfur fuel (sulfur content 0.50 % (5000 ppm) to 1.0 % (10000 ppm)) is used as a diesel fuel, change the engine oil filter at shorter intervals. (approximately half).

DO NOT USE Fuels that have sulfur content greater than 1.0 % (10000 ppm).

Diesel fuels specified to ASTM D975 are recommended.

No.2-D is a distillate fuel of lower volatility for engines in industrial and heavy mobile service. (SAE J313 JUN87)

Since KUBOTA diesel engines of less than 56 kW (75 hp) utilize EPA Tier 4 and Interim Tier 4 standards, the use of low sulfur fuel or ultra low sulfur fuel is mandatory for these engines, when operated in US EPA regulated areas. Therefore, please use No.2-D S500 or S15 diesel fuel as an alternative to No.2-D, and use No.1-D S500 or S15 diesel fuel as an alternative to No.1-D for ambient temperatures below -10°C (14°F).

Chart2 Recommended Oil

above 77° F (25°C)	SAE30 or SAE10W-30/SAE10W-40
77° F~32° F (25°C~ 0 °C)	SAE20 or SAE10W-30/SAE10W-40
below 32° F (0 °C)	SAE10 or SAE10W-30/SAE10W-40

Chart3 Recommended Oil Classification

Refer to the following table for the suitable American Petroleum institute (API) classification of engine oil according to the Fuel Type Used : (Low Sulfur, Ultra Low Sulfur or High Sulfur Fuels).

Fuel Type	Engine oil classification (API classification)
High Sulfur Fuel [0.05 % (500 ppm) ≤ Sulfur Content < 0.50 % (5000 ppm)]	CF (If the "CF-4, CG-4, CH-4, or CI-4" engine oil is used with a high-sulfur fuel, change the engine oil at shorter intervals. (approximately half))
Low Sulfur Fuel [Sulfur Content < 0.05 % (500 ppm)] or Ultra Low Sulfur Fuel [Sulfur Content < 0.0015 % (15 ppm)]	CF, CF-4, CG-4, CH-4 or CI-4

- 1) SAE : Society of Automotive Engineers
- 2) ASTM : American Society of Testing and Materials
- 3) US EPA : United States Environmental Protection Agency
- 4) No.1-D or No.2-D, S500 : Low Sulfur Diesel (LSD) less than 500 ppm or 0.05 wt. %
No.1-D or No.2-D, S15 : Ultra Low Sulfur Diesel (ULSD) 15 ppm or 0.0015 wt. %

DANGER

Never fill the fuel tank while the engine is running or in the dark. Diesel fuel spillage on a hot engine can cause a fire or an explosion. If diesel fuel spillage occurs, wipe up the spilled diesel fuel completely to prevent fire hazards.

Additional Information : At time of retail delivery

It is recommended for the dealer to advise the customer or end user, to use the information contained in this bulletin to make the proper selection of engine oil based on the fuel type and applicable emission regulations for that area.