

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES	
2. AMENDMENT/MODIFICATION NO. 0002		3. EFFECTIVE DATE 21-May-2004	4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO.(If applicable)
6. ISSUED BY U.S. ARMY ENGINEER DISTRICT, AK CEPOA CT (W911KB) P. O. BOX 6898 ELMENDORF AFB AK 99506-6898		CODE W911KB	7. ADMINISTERED BY (If other than item 6) See Item 6		CODE
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)			X	9A. AMENDMENT OF SOLICITATION NO. W911KB-04-B-0007	
			X	9B. DATED (SEE ITEM 11) 22-Apr-2004	
				10A. MOD. OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.					
12. ACCOUNTING AND APPROPRIATION DATA (If required)					
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.					
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).					
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)					
a. The above numbered Solicitation is hereby amended to add additional questions and answers and make changes to the Specifications. The specific changes are identified in the summary of changes.					
b. The bid opening date/time is changed from 27-May-2004 at 2:00 PM to 3-Jun-2004 at 2:00 PM.					
c. Point of contact for this amendment is R. David Williams at (907) 753-5571.					
d. All other terms and conditions remain unchanged.					
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.					
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
			TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
_____ (Signature of person authorized to sign)			BY _____ (Signature of Contracting Officer)		21-May-2004

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

- a. Reference SECTION 00010 - SOLICITATION CONTRACT FORM, Block 11.
The reference to the period of performance has changed from SCR-1 to 52.211-10
- b. Reference SECTION 00100 - BIDDING SCHEDULE Page 5 of 161

Paragraph 1, EVALUATION OF BIDS is changed to read:

- 1. EVALUATION OF BIDS: Award will be made to the low, responsive, responsible bidder on total of all items.
- c. Additional Contractor Questions and Answers have been incorporated as Attachment 1
- d. The following drawings are substituted for the superseded drawings. The identifier "AM #2" appears before and after revised drawings as listed in SCR-5.

NONE

- e. The following revised documents are substituted for the superseded documents. The identifier "AM #2" appears before and after new and revised material, except as noted below.

SECTION 01356 STORM WATER POLLUTION PREVENTION MEASURES

Paragraph 1.4.2.1 Silt Fences

SECTION 02270 SITE WORK

Paragraph 2.4.1 General
Paragraph 3.6 SURVEYS

- f. The following sections (including submittal registers) are deleted.

NONE

- g. The following sections (including submittal registers) are added.

NONE

- h. Reference SECTION 00700a, Wage Rates. The Wage Determinations are updated to the following:

General Decision Number: **AK20030001** 05/14/2004, BUILDING AND HEAVY CONSTRUCTION PROJECTS, Modification Number 6 dated 05/14/2004

GENERAL DECISION: **AK20030006** 05/14/2004 Highway Construction Projects, Modification Number 6 dated 05/14/2004

- i. NOTICE TO BIDDERS: PLEASE MARK OUTSIDE OF ENVELOPE IN WHICH BID IS SUBMITTED TO SHOW AMENDMENTS RECEIVED. YOU ARE REQUIRED TO ACKNOWLEDGE RECEIPT OF THIS AMENDMENT ON YOUR COMPANY/FIRM COVER LETTER.

Attachment 1 to Amendment 0002

Additional Contractor Questions and Answers.

1. Question: I noticed that the permit for Reasonable Assurance and the Fish Habitat permit call for 336,000 sqft of filter fabric on the streambank and streambed, but there is no mention of this fabric in the plans and specifications.

Answer: The design was refined after consultation on the permit. The filter material serves the same purpose as the filter fabric, so the filter fabric is not required. This is not a significant change, so the permit was not changed.

2. Question: Section 01271 p. 1.2.2 states: "Rock placed outside the limits and tolerances indicated will be deducted from payment at a rate of 1.35 tons per cubic yard in place,"

Since all of the unit priced items for volume are by the cubic yard, and there is no other provision in the specifications for payment for weighing materials placed on the project, the conversion in the above mentioned paragraph seems to be irrelevant and is confusing. Any deduction for materials placed outside the tolerance limits should be deducted at the volume unit price.

Answer: The conversion from weight to volume is given incase weight is the only measurement available. The statement, "In the event the volume of the rock cannot be determined" is added to beginning of Specification Section 01271 paragraph 1.2.2.

3. Question: In Specifications Section 02270 Rock, it states "The Contractor shall identify its proposed rock source during the pre-award survey." We find no other reference in the solicitation to the Pre-award survey. When does the "Pre-award Survey" occur?

Answer: The pre-award survey will occur after bid opening and before contract award and is part of the determination of contractor responsibility in accordance with Federal Acquisition Regulation Subpart 9.1, Responsible Prospective Contractors.

4. Question: Specification section 02270, paragraph 2.1 states that, Contractor shall obtain rock which meets all requirements specified herein. Paragraph 2.2 of the same section requires rock be composed of hard, strong durable materials and not contain cracks, joints, faults, or bands of deleterious materials which would result in breakage during or after placement. Appendix 02300-B, paragraph 4.b states, A better quality of rock than what has been mined from Mueller Mountain would be preferred for future projects. However, considering the remoteness of this area and the expense of transporting higher quality rock from distant quarries, this rock source is adequate. Amendment 1 to the solicitation says, USAED will not obtain access rights to Mueller Mountain because it does not endorse that rock source. These statements are contradictory. We acknowledge that rock from Mueller Mountain will not meet the specification as written. USAED must either reduce the specification to accept rock from Mueller Mountain for this project, or state that Mueller Mountain rock does not meet the specification and will not be acceptable on this project.

Answer: Rock that meets the specification will be acceptable, regardless of the source. The COE does not specify or eliminate potential sources. It was not the COE's intent in Amendment 0001 to eliminate Mueller Mountain as a potential source of rock.

5. Question: Specification section 01356, paragraph 1.4.2.1, requires silt fences where shown on the drawings. We did not find silt fences identified on the provided drawings. Are silt fences required?

Answer: Reference Section 01356, paragraph 1.4.2.1 Silt Fences, the sentence reading, "Silt fences shall be installed in the locations indicated on the drawings." was removed in Amendment 0002.

6. Question: Are the interim condition surveys required after the placement of the 1-ft of filter material and then again after the placement of the 1-ft of core rock or is a single interim survey after placement of the core rock all that is required? (Reference specification section 02270, paragraph 3.6 b.)

Answer: Reference Section 02270, paragraph 3.6 b. Amendment 0002 added language to clarify this paragraph.

7. Question: On SF 1442 Block 11, the period of performance is not stated.

Answer: Amendment 0002 makes the following change. Reference SECTION 00010 - SOLICITATION CONTRACT FORM, Block 11. The reference to the period of performance has changed from SCR-1 to 52.211-10

8. Question: Bid Schedule, Page 5 of 161, Paragraphs 1. and 2. at the bottom of the page have conflicting statements. Paragraph 1. says the awardee will be selected on the basis of base bid items only. Paragraph 2. says that the total amount of both base and optional bid items will be used to evaluate the award. These are mutually exclusive events and failure to correct this prior to bid opening would give any displaced bidder the opportunity to protest an award to the selected bidder if they are not low bidder using both methods to calculate the awardee. It being stated in other places in the solicitation that optional items will be considered does not over ride the clear language in paragraph 1 of the bid schedule that another method of determining the low bidder is possible. Please clarify.

Answer: Amendment 0002 makes the following change. Reference SECTION 00100 - BIDDING SCHEDULE Page 5 of 161

Paragraph 1, EVALUATION OF BIDS is changed to read,

1. EVALUATION OF BIDS: Award will be made to the low, responsive, responsible bidder on total of all items.

9. Question: In SCR-100, it is stated that the sum of \$100,000 has been reserved for this contract and is available for payment this fiscal year. That amount does not provide enough funding to cover the cost of mobilization this fiscal year, in September 2004, and demobilization on the first barge out in May 2005, should additional funding not become available. Has additional funding become available to fully fund the contract?

Answer: Reference SCR-100 CONTINUING CONTRACTS (1995 MAR HQ USACE) (EFARS 52.232-5001): This clause shall be applied in its entirety and places certain responsibilities on the contractor.

Paragraph (d) states; "The Government may at any time reserve additional funds for payments contract if there are funds available for such purpose. The Contracting Officer will promptly notify the Contractor of any additional funds reserved for the contract by issuing an administrative modification to the contract."

Further in accordance with this clause, if the funds reserved will be exhausted, the contractors will follow the instructions in paragraph (e) which state; "If earnings will be such that funds reserved for the contract will be exhausted before the end of any fiscal year, the Contractor shall give written notice to the Contracting Officer of the estimated date of exhaustion and the amount of additional funds which will be needed to meet payments due or to become due under the contract during that fiscal year. This notice shall be given not less than 45 nor more than 60 days prior to the estimated date of exhaustion."

10. Question: The most economical rock source for this project is the Mueller Mt. Quarry. It has been the historical source for every project done in Galena. There is some concern that this material may not meet the Corps of Engineers specifications for rock. I would like to know prior to bid time if the Corps will reject this quarry if the rock does not meet specification. The other option is to barge the material in on the Yukon. This will increase the cost of the project tremendously.

Answer: Rock that meets the specification will be acceptable, regardless of the source. The COE does not specify or eliminate potential sources. It was not the COE's intent in Amendment 0001 to eliminate Mueller Mountain as a potential source of rock.

SECTION 00700a
General Wage Decision AK030001
(Dated (06/13/2003))

Modification Record:

No.	Publication Date
0	06/13/2003
1	11/28/2003
2	02/06/2004
3	03/05/2004
4	04/02/2004
5	04/16/2004
6	05/14/2004 ...AM#2

General Wage Decision AK030006
(Dated (06/13/2003))

Modification Record:

No.	Publication Date
0	06/13/2003
1	11/28/2003
2	02/13/2004
3	03/05/2004
4	04/02/2004
5	04/16/2004
6	05/14/2004 ...AM#2
7	

General Decision Number: AK030001 05/14/2004
 Superseded General Decision Number: AK020001
 State: Alaska
 Construction Types: Building and Heavy
 Counties: Alaska Statewide.
 BUILDING AND HEAVY CONSTRUCTION PROJECTS (does not include residential construction consisting of single family homes and apartments up to and including 4 stories)

Modification Number	Publication Date
0	06/13/2003
1	11/28/2003
2	02/06/2004
3	03/05/2004
4	04/02/2004
5	04/16/2004
6	05/14/2004

ASBE0097-001 01/01/2004

	Rates	Fringes
Asbestos Workers/Insulator (includes application of all insulating materials protective coverings, coatings and finishings to all types of mechanical systems).....	\$ 29.63	9.42

ASBE0097-002 01/01/2004

	Rates	Fringes
Hazardous Material Handler (includes preparation, wetting, stripping, removal scrapping, vacuuming, bagging, and disposing of all insulation materials, whether they contain asbestos or not, from mechanical systems).....	\$ 26.45	9.42

BOIL0502-002 01/01/2004

	Rates	Fringes
Boilermaker.....	\$ 35.23	15.37

BRAK0001-002 07/01/2003

	Rates	Fringes
Bricklayer, Blocklayer, Stonemason, Marble Mason, Tile Setter, Terrazzo Worker....	\$ 30.13	11.80
Tile & Terrazzo Finisher.....	\$ 24.70	11.80

CARP1243-003 07/01/2003
 North of the 63rd Parallel

	Rates	Fringes
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Carpenter/Lather/Drywall Applicator.....	\$ 31.40	12.20
Carpenter: Fire or Flood Repair Work.....	\$ 31.99	12.20
Millwright.....	\$ 32.38	12.20

 CARP1281-004 07/01/2003
 SOUTH OF 63RD PARALLEL

	Rates	Fringes
Acoustical Applicator and Lather.....	\$ 28.10	12.70
Carpenters & Drywallers.....	\$ 28.10	12.70
Millwright.....	\$ 28.80	12.70

 CARP2520-003 08/01/2003

	Rates	Fringes
Diver		
Stand-by.....	\$ 32.66	12.20
Tender.....	\$ 31.66	12.20
Working.....	\$ 65.32	12.20
Piledriver		
Carpenter.....	\$ 29.30	12.20
Piledriver; Skiff Operator and Rigger.....	\$ 28.14	12.20
Sheet Pile Stabber.....	\$ 29.14	12.20
Welder.....	\$ 29.90	12.20

 ELEC1547-004 11/03/2003

	Rates	Fringes
Cable splicer.....	\$ 33.17	3%+13.10
Electrician;Technician.....	\$ 31.42	3%+13.10

 ELEC1547-005 01/01/2004

	Rates	Fringes
Cable splicer.....	\$ 35.90	3%+16.00
Linemen (Including Equipment Operators, Technician).....	\$ 34.15	3%+16.00
Powderman.....	\$ 32.15	3%+16.00
Tree Trimmer.....	\$ 22.95	3%+16.00

 ELEV0019-002 01/01/2004

	Rates	Fringes
Elevator Mechanic.....	\$ 37.695	10.765+a

FOOTNOTE: a. Employer contributes 8% of the basic hourly rate for over 5 year's service and 6% of the basic hourly rate for 6 months to 5 years' of service as vacation paid credit. Seven paid holidays: New Year's Day; Memorial Day; Independence Day; Labor Day, Thanksgiving Day; Friday after Thanksgiving and Christmas Day

 ENGI0302-002 09/01/2003

	Rates	Fringes
Power equipment operators:		
GROUP 1.....	\$ 32.08	10.89
GROUP 1A.....	\$ 33.62	10.89

GROUP 2.....	\$ 31.41	10.89
GROUP 3.....	\$ 30.78	10.89
GROUP 4.....	\$ 25.36	10.89

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt Roller; Back Filler; Barrier Machine (Zipper); Batch Plant Operator: Batch and Mixer over 200 yds.; Beltcrete with power pack and similar conveyors; Bending Machine; Boat Coxwains; Bulldozers; Cableways, Highlines and Cablecars; Cleaning Machine; Coating Machine; Concrete Hydro Blaster; Cranes-45 tons and under or 150 foot boom and under (including jib and attachments): (a) Shovels, Backhoes, Draglines, Clamshells; Gradalls-3 yards and under; (b) Hydralifts or Transporters, all track or truck type, (c) Derricks; Crushers; Deck Winches-Double Drum; Ditching or Trenching Machine (16 inch or over); Drilling Machines, core, cable, rotary and exploration; Finishing Machine Operator, concrete paving, Laser Screed, sidewalk, curb and gutter machine; Helicopters; Hover Craft, Flex Craft, Loadmaster, Air Cushion, All Terrain Vehicle, Rollagon, Bargecable, Nodwell Sno Cat; Hydro Ax: Feller Buncher and similar; Loaders: Forklifts with power boom and swing attachment, Overhead and front end, 2 1/2 yards through 5 yards, Loaders with forks or pipe clamps, Loaders, elevating belt type, Euclid and similar types; Mechanics, Bodyman; Micro Tunneling Machine; Mixers: Mobile type w/hoist combination; Motor Patrol Grader; Mucking Machines: Mole, Tunnel Drill, Horizontal/Directional Drill Operator, and/or Shield; Operator on Dredges; Piledriver Engineers, L. B. Foster, Puller or similar Paving Breaker; Power Plant, Turbine Operator, 200 k.w. and over (power plants or combination of power units over 300 k.w.); Sauerman-Bagley; Scrapers-through 40 yards; Service Oiler/Service Engineer; Sidebooms-under 45 tons; Shot Blast Machine; Spreaders, Blaw Knox, Cedarapids, Barber Greene, Slurry Machine; Sub-grader (Gurries, C.M.I. and C.M.I. Roto Mills and similar types); Tack tractor; Truck mounted Concrete Pumps, Conveyor, Creter; Water Kote Machine; Unlicensed off road hauler

GROUP 1A: Cranes-over 45 tons or 150 foot (including jib and attachments): (a) Shovels, backhoes, draglines, clamshells-over 3 yards, (b) Tower cranes; Loaders over 5 yds.; Motor Patrol Grader (finish: when finishing to final graders and/or to hubs, or for asphalt); Power Plants: 1000 k.w. and over; Quad; Screed; Sidebooms over 45 tons; Slip Form Paver C.M.I. and similar types; Scrapers over 40 yards

GROUP 2: Batch Plant Operators: Batch and Mixer 200 yds. per hour and under; Boiler-fireman; Cement Hog and Concrete Pump Operator; Conveyors (except as listed in group 1); Hoist on steel erection; Towermobiles and Air Tuggers; Horizontal/Directional Drill Locator; Loaders, Elevating Grader, Dumor and similar; Locomotives: rod and geared engines; Mixers; Screening, Washing Plant; Sideboom (cradling rock drill regardless of size); Skidder; Trenching Machine under 16 inches.

GROUP 3: "A" Frame Trucks, Deck Winches: single power drum; Bombardier (tack or tow rig); Boring Machine; Brooms-power; Bump Cutter; Compressor; Farm tractor; Forklift, industrial type; Gin Truck or Winch Truck with poles when used for

hoisting; Grade Checker and Stake Hopper; Hoist, Air Tuggers, Elevators; Loaders: (a) Elevating-Athey, Barber Green and similar types (b) Forklifts or Lumber Carrier (on construction job site) (c) Forklifts with Tower (d) Overhead and Front-end, under 2 1/2 yds. Locomotives: Dinkey (air, steam, gas and electric) Speeders; Mechanics (light duty); Mixers: Concrete Mixers and Batch 200 yds. per hour and under; Oil, Blower Distribution; Post Hole Diggers, mechanical; Pot Fireman (power agitated); Power Plant, Turbine Operator, under 300 k.w.; Pumps-water; Rig oiler/assistant engineer, over 45 ton, over 3 yards or over 150 foot boom; Roller-other than Plantmix; Saws, concrete; Straightening Machine; Tow Tractor
 GROUP 4: Rig Oiler/Assistant Engineer (Advances to Group III if over 45 tons or 3 yards or 150 ft. boom); Swamper (on trenching machines or shovel type equipment); Spotter; Steam Cleaner
 FOOTNOTE: Groups 1-4 receive 10% premium while performing tunnel or underground work.

IRON0751-003 08/01/2003

	Rates	Fringes
Ironworkers:		
BRIDGE, STRUCTURAL,		
ORNAMENTAL, REINFORCING		
MACHINERY MOVER,		
RIGGER, SHEETER, STAGE		
RIGGER, BENDER OPERATOR.....	\$ 27.50	14.10
FENCE, BARRIER AND		
GUARDRAIL INSTALLERS.....	\$ 24.00	13.85
GUARDRAIL LAYOUT MAN.....	\$ 24.74	13.85
HELICOPTER, TOWER.....	\$ 28.50	14.10

LABO0341-005 09/01/2003

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 24.49	11.50
GROUP 2.....	\$ 25.24	11.50
GROUP 3.....	\$ 25.89	11.50
GROUP 3A.....	\$ 28.29	11.50
GROUP 4.....	\$ 16.84	11.50
TUNNELS, SHAFTS, AND		
RAISES		
GROUP 1.....	\$ 26.94	11.50
GROUP 2.....	\$ 27.76	11.50
GROUP 3.....	\$ 28.48	11.50
GROUP 3A.....	\$ 31.12	11.50

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Workers (shovelman, plant crew); Brush Cutters; Camp Maintenance Laborer; Carpenter Tenders; Choke Setters, Hook Tender, Rigger, Signalman; Concrete Laborer (curb and gutter, chute handler, grouting, curing, screeding); Crusher Plant Laborer; Demolition Laborer; Ditch Diggers; Dump Man; Environmental Laborer (asbestos (limited to nonmechanical systems), hazardous and toxic waste, oil spill); Fence Installer; Fire Watch Laborer; Flagman; Form Strippers; General Laborer; Guardrail Laborer, Bridge Rail

Installers; Hydro-Seeder Nozzleman; Laborers (building);
 Landscape or Planter; Material Handlers; Pneumatic or Power
 Tools; Portable or Chemical Toilet Serviceman; Pump Man or
 Mixer Man; Railroad Track Laborer; Sandblast, Pot Tender; Saw
 Tenders; Scaffold Building and Erecting; Slurry Work; Stake
 Hopper; Steam Point or Water Jet Operator; Steam Cleaner
 Operator; Tank Cleaning; Utiliwalk and Utilidor Laborer;
 Watchman (construction projects); Window Cleaner
 GROUP 2: Burning and Cutting Torch; Cement or Lime Dumper or
 Handler (sack or bulk); Choker Splicer; Chucktender (wagon,
 airtrack and hydraulic drills); Concrete Laborers (power
 buggy, concrete saws, pumpcrete nozzleman, vibratorman);
 Environmental Laborer (marine work); Foam Gun or Foam Machine
 Operator; Green Cutter (dam work); Guardrail Machine
 Operator; Gunnite Operator; Hod Carriers; Jackhammer or
 Pavement Breakers (more than 45 pounds); Mason Tender and Mud
 Mixer (sewer work); Plasterer, Bricklayer and Cement Finisher
 Tenders; Power Saw Operator; Railroad Switch Layout Laborer;
 Sandblaster; Sewer Caulkers; Sewer Plant Maintenance Man;
 Thermal Plastic Applicator; Timber Faller, chain saw
 operator, filer; Timberman
 GROUP 3: Bit Grinder; Drill Doctor (in the field); Drillers
 (including, but not limited to, wagon drills, air track
 drills; hydraulic drills); High Rigger and tree topper;
 Higher Scaler; Pioneer Drilling and Drilling Off Tugger (all
 type drills); Powderman; Slurry Seal Squeegee Man
 GROUP 3A: Asphalt Raker, Asphalt Belly dump lay down; Grade
 checker (setting or transferring of grade marks, line and
 grade); Pipelayers
 GROUP 4: Final Building Cleanup
 TUNNELS, SHAFTS, AND RAISES CLASSIFICATIONS
 GROUP 1: Brakeman; Muckers; Nippers; Topman and Bull Gang;
 Tunnel Track Laborer
 GROUP 2: Burning and Cutting Torch; Concrete Laborers;
 Jackhammers; Laser Instrument Operators; Nozzleman, Pumpcrete
 or Shotcrete; Pipelayers.
 GROUP 3: Miner; Miner; Retimberman
 GROUP 3A: Powderman
 Tunnel shaft and raise rates only apply to workers regularly
 employed inside a tunnel portal or shaft collar.

 * PAIN1140-004 04/01/2004
 SOUTH OF THE 63RD PARALLEL

	Rates	Fringes
Painters:		
Brush, Roller, Sign,		
Paper and Vinyl, Swing		
Stage, Hand		
Taper/Drywall,		
Structural Steel, and		
Commercial Spray.....	\$ 23.79	12.89
Machine Taper/Drywall.....	\$ 23.99	12.89
Spray-Sand/Blast, Epoxy		
and Tar Applicator.....	\$ 24.59	12.89
Steeple Jack & Tower.....	\$ 25.59	12.89

 PAIN1140-005 09/01/2003

	Rates	Fringes
Soft Floor Layer.....	\$ 25.40	8.87

PAIN1140-006 01/01/2004		
SOUTH OF THE 63RD PARALLEL		
	Rates	Fringes
Glazier.....	\$ 27.00	11.60

* PAIN1555-004 04/01/2004		
NORTH OF THE 63RD PARALLEL		
	Rates	Fringes
Hazardous Material		
Applicator		
LEAD BASED PAINT		
ABATEMENT, RADON		
MITIGATION, SANDBLAST,		
STRUCTURAL STEEL,		
TAPING, TEXTURING.....	\$ 28.50	12.47
Painter		
BRUSH, BUFFER OPERATOR,		
FLOOR-COVERER, POT		
TENDER, ROLL SPRAY,		
WALLCOVERER.....	\$ 28.00	12.47

PAIN1555-005 01/01/2004		
NORTH OF THE 63RD PARALLEL		
	Rates	Fringes
Glazier.....	\$ 26.60	12.07

PLAS0867-001 04/01/2004		
	Rates	Fringes
Plasterer		
NORTH OF THE 63RD		
PARALLEL.....	\$ 30.39	11.51
SOUTH OF THE 63RD		
PARALLEL.....	\$ 30.14	11.51

* PLAS0867-003 04/01/2003		
	Rates	Fringes
Cement Mason		
NORTH OF THE 63RD		
PARALLEL.....	\$ 29.54	11.51
SOUTH OF THE 63RD		
PARALLEL.....	\$ 29.29	11.51

PLUM0262-002 07/01/2003		
East of the 141st Meridian		
	Rates	Fringes
Plumber; Steamfitter.....	\$ 29.09	10.55

PLUM0367-002 07/20/2003		
South of the 63rd Parallel		
	Rates	Fringes
Plumber; Steamfitter.....	\$ 30.80	12.50

PLUM0375-002 07/01/2003		
North of the 63rd Parallel		

	Rates	Fringes
Plumber; Steamfitter.....	\$ 34.26	13.15

* PLUM0669-002 04/01/2004		
	Rates	Fringes
Sprinkler Fitter.....	\$ 37.85	8.65

ROOF0190-002 09/01/2003		
	Rates	Fringes
Roofer		
North of the 63rd		
Parallel.....	\$ 30.20	10.92
South of the 63rd		
Parallel.....	\$ 28.20	10.92

SHEE0023-003 07/01/2003		
South of the 63rd Parallel		
	Rates	Fringes
Sheet Metal Worker.....	\$ 30.80	12.44

SHEE0023-004 09/01/2003		
North of the 63rd Parallel		
	Rates	Fringes
Sheet Metal Worker.....	\$ 33.36	12.89

TEAM0959-003 09/01/2003		
	Rates	Fringes
Truck Driver		
GROUP 1.....	\$ 32.10	10.07
GROUP 1A.....	\$ 33.15	10.07
GROUP 2.....	\$ 31.05	10.07
GROUP 3.....	\$ 30.37	10.07
GROUP 4.....	\$ 29.90	10.07
GROUP 5.....	\$ 29.26	10.07
GROUP 1: Semi with Double Box Mixer; Dump Trucks (including rockbuggy and trucks with pups) over 40 yards up to and including 60 yards; Deltas, Commanders, Rollogans and similar equipment when pulling sleds, trailers or similar equipment; Boat Coxswain; Lowboys including attached trailers and jeeps, up to and including 12 axles; Ready-mix over 12 yards up to and including 15 yards)		
GROUP 1A: Dump Trucks (including Rockbuggy and Trucks with pups) over 60 yards up to and including 100 yards		
GROUP 2: Turn-O-Wagon or DW-10 not self-loading; All Deltas, Commanders, Rollogans, and similar equipment; Mechanics; Tireman, heavy duty; Dump Trucks (including Rockbuggy and Trucks with pups) over 20 yards up to and including 40 yards; Lowboys including attached trailers and jeeps up to and including 8 axles; Super vac truck/cacasco truck/heat stress truck; Ready-mix over 7 yards up to and including 12 yards		
GROUP 3: Dump Trucks (including Rockbuggy and Trucks with pups) over 10 yards up to and including 20 yards; batch trucks 8 yards and up; Oil distributor drivers; Greaser; Water Wagon (when pulled by Euclid or similar type equipment); Partsman		
GROUP 4: Buggymobile; Semi or Truck and trailer; Dumpster; Tireman (light duty); Dump Trucks (including Rockbuggy and		

Truck with pups) up to and including 10 yards; Track Truck Equipment; Stringing Truck; Fuel Truck; Fuel Handler with truck; Grease Truck; Flat Beds, dual rear axle; Hyster Operators (handling bulk aggregate); Lumber Carrier; Water Wagon, semi; Water Wagon, dual axle; Gin Pole Truck, Winch Truck, Wrecker, Truck Mounted "A" Frame manufactured rating over 5 tons; Bull Lifts and Fork Lifts with Power Boom and Swing attachments, over 5 tons; Front End Loader with Forks; Bus Operator over 30 passengers; All Terrain Vehicles; Boom Truck/Knuckle Truck over 5 tons; Foam Distributor Truck/dual axle; Hydro-seeders, dual axle; Vacuum Trucks, Truck Vacuum Sweepers; Vacuum Trucks, Truck Vacuum Sweepers; Loadmaster (air and water); Air Cushion or similar type vehicle; Fire Truck; Combination Truck-fuel and grease; Compactor (when pulled by rubber tired equipment); Rigger (air/water/oilfield); Ready Mix, up to and including 7 yards
GROUP 5: Gravel Spreader Box Operator on Truck; Flat Beds, single rear axle; Boom Truck/Knuckle Truck up to and including 5 tons; Pickups (Pilot Cars and all light duty vehicles); Water Wagon, single axle; Gin Pole Truck, Winch Truck, Wrecker, Truck Mounted "A" Frame, manufactured rating 5 tons and under; Bull Lifts and Fork Lifts (fork lifts with power broom and swing attachments up to and including 5 tons); Buffer Truck; Tack Truck; Bus Operators (up to 30 passengers); Farm type Rubber Tired Tractor (when material handling or pulling wagons on a construction project); Foam Distributor, single axle; Hydro-Seeders, single axle; Team Drivers (horses, mules and similar equipment); Rigger (warehouse operation); Fuel Handler (station/bulk attendant); Batch Truck, up to and including 7 yards

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.
=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the

Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

General Decision Number: AK030006 05/14/2004

State: Alaska

Construction Types: Highway

Counties: Aleutians East, Aleutians West, Anchorage, Bethel, Bristol Bay, Dillingham, Fairbanks North Star, Kenai Peninsula, Kodiak Island, Matanuska-Susitna, Nome, North Slope, Northwest Artic, Southeast Fairbanks, Valdez-Cordova, Wade Hampton and Yukon-Koyukuk Counties in Alaska.

Highway Construction Projects

Modification Number	Publication Date
0	06/13/2003
1	11/28/2003
2	02/13/2004
3	03/05/2004
4	04/02/2004
5	04/16/2004
6	05/14/2004

CARP1243-004 07/01/2003
 North of the 63rd Parallel

	Rates	Fringes
Carpenter.....	\$ 31.40	12.20

CARP1281-006 07/01/2003
 South of the 63rd Parallel

	Rates	Fringes
Carpenter.....	\$ 28.10	12.70

CARP2520-004 08/01/2003

	Rates	Fringes
Piledriver		
Carpenter.....	\$ 29.30	12.20
Piledriver, Skiff operator, Rigger.....	\$ 28.14	12.20
Sheet Stabber.....	\$ 29.14	12.20
Welder.....	\$ 29.90	12.20

ELEC1547-004 11/03/2003

	Rates	Fringes
Cable splicer.....	\$ 33.17	3%+13.10
Electrician; Technician.....	\$ 31.42	3%+13.10

ELEC1547-005 01/01/2004

	Rates	Fringes
Cable splicer.....	\$ 35.90	3%+16.00
Linemen (Including Equipment Operators, Technician).....	\$ 34.15	3%+16.00
Powderman.....	\$ 32.15	3%+16.00
Tree Trimmer.....	\$ 22.95	3%+16.00

ENGI0302-002 09/01/2003

	Rates	Fringes
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Power equipment operators:

GROUP 1.....	\$ 32.08	10.89
GROUP 1A.....	\$ 33.62	10.89
GROUP 2.....	\$ 31.41	10.89
GROUP 3.....	\$ 30.78	10.89
GROUP 4.....	\$ 25.36	10.89

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Asphalt Roller; Back Filler; Barrier Machine (Zipper); Batch Plant Operator: Batch and Mixer over 200 yds.; Beltcrete with power pack and similar conveyors; Bending Machine; Boat Coxwains; Bulldozers; Cableways, Highlines and Cablecars; Cleaning Machine; Coating Machine; Concrete Hydro Blaster; Cranes-45 tons and under or 150 foot boom and under (including jib and attachments): (a) Shovels, Backhoes, Draglines, Clamshells; Gradalls-3 yards and under; (b) Hydralifts or Transporters, all track or truck type, (c) Derricks; Crushers; Deck Winches-Double Drum; Ditching or Trenching Machine (16 inch or over); Drilling Machines, core, cable, rotary and exploration; Finishing Machine Operator, concrete paving, Laser Screed, sidewalk, curb and gutter machine; Helicopters; Hover Craft, Flex Craft, Loadmaster, Air Cushion, All Terrain Vehicle, Rollagon, Bargecable, Nodwell Sno Cat; Hydro Ax: Feller Buncher and similar; Loaders: Forklifts with power boom and swing attachment, Overhead and front end, 2 1/2 yards through 5 yards, Loaders with forks or pipe clamps, Loaders, elevating belt type, Euclid and similar types; Mechanics, Bodyman; Micro Tunneling Machine; Mixers: Mobile type w/hoist combination; Motor Patrol Grader; Mucking Machines: Mole, Tunnel Drill, Horizontal/Directional Drill Operator, and/or Shield; Operator on Dredges; Piledriver Engineers, L. B. Foster, Puller or similar Paving Breaker; Power Plant, Turbine Operator, 200 k.w. and over (power plants or combination of power units over 300 k.w.); Sauerman-Bagley; Scrapers-through 40 yards; Service Oiler/Service Engineer; Sidebooms-under 45 tons; Shot Blast Machine; Spreaders, Blaw Knox, Cedarapids, Barber Greene, Slurry Machine; Sub-grader (Gurries, C.M.I. and C.M.I. Roto Mills and similar types); Tack tractor; Truck mounted Concrete Pumps, Conveyor, Creter; Water Kote Machine; Unlicensed off road hauler

GROUP 1A: Cranes-over 45 tons or 150 foot (including jib and attachments): (a) Shovels, backhoes, draglines, clamshells-over 3 yards, (b) Tower cranes; Loaders over 5 yds.; Motor Patrol Grader (finish: when finishing to final graders and/or to hubs, or for asphalt); Power Plants: 1000 k.w. and over; Quad; Screed; Sidebooms over 45 tons; Slip Form Paver C.M.I. and similar types; Scrapers over 40 yards

GROUP 2: Batch Plant Operators: Batch and Mixer 200 yds. per hour and under; Boiler-fireman; Cement Hog and Concrete Pump Operator; Conveyors (except as listed in group 1); Hoist on steel erection; Towermobiles and Air Tuggers; Horizontal/Directional Drill Locator; Loaders, Elevating Grader, Dumor and similar; Locomotives: rod and geared engines; Mixers; Screening, Washing Plant; Sideboom (cradling rock drill regardless of size); Skidder; Trenching Machine under 16 inches.

GROUP 3: "A" Frame Trucks, Deck Winches: single power drum;

Bombardier (tack or tow rig); Boring Machine; Brooms-power; Bump Cutter; Compressor; Farm tractor; Forklift, industrial type; Gin Truck or Winch Truck with poles when used for hoisting; Grade Checker and Stake Hopper; Hoist, Air Tuggers, Elevators; Loaders: (a) Elevating-Athey, Barber Green and similar types (b) Forklifts or Lumber Carrier (on construction job site) (c) Forklifts with Tower (d) Overhead and Front-end, under 2 1/2 yds. Locomotives: Dinkey (air, steam, gas and electric) Speeders; Mechanics (light duty); Mixers: Concrete Mixers and Batch 200 yds. per hour and under; Oil, Blower Distribution; Post Hole Diggers, mechanical; Pot Fireman (power agitated); Power Plant, Turbine Operator, under 300 k.w.; Pumps-water; Rig oiler/assistant engineer, over 45 ton, over 3 yards or over 150 foot boom; Roller-other than Plantmix; Saws, concrete; Straightening Machine; Tow Tractor
 GROUP 4: Rig Oiler/Assistant Engineer (Advances to Group III if over 45 tons or 3 yards or 150 ft. boom); Swamper (on trenching machines or shovel type equipment); Spotter; Steam Cleaner
 FOOTNOTE: Groups 1-4 receive 10% premium while performing tunnel or underground work.

IRON0751-003 08/01/2003

	Rates	Fringes
Ironworkers:		
BRIDGE, STRUCTURAL,		
ORNAMENTAL, REINFORCING		
MACHINERY MOVER,		
RIGGER, SHEETER, STAGE		
RIGGER, BENDER OPERATOR.....	\$ 27.50	14.10
FENCE, BARRIER AND		
GUARDRAIL INSTALLERS.....	\$ 24.00	13.85
GUARDRAIL LAYOUT MAN.....	\$ 24.74	13.85
HELICOPTER, TOWER.....	\$ 28.50	14.10

LABO0341-007 09/01/2003

	Rates	Fringes
Laborers:		
GROUP 1.....	\$ 24.49	11.50
GROUP 2.....	\$ 25.24	11.50
GROUP 3.....	\$ 25.89	11.50
GROUP 3A.....	\$ 28.29	11.50
GROUP 4.....	\$ 16.84	11.50
Tunnels, Shafts, and		
Raises		
GROUP 1.....	\$ 26.94	11.50
GROUP 2.....	\$ 27.76	11.50
GROUP 3.....	\$ 28.48	11.50
GROUP 3A.....	\$ 31.12	11.50

LABORERS CLASSIFICATIONS

GROUP 1: Asphalt Workers (shovelman, plant crew); Brush Cutters; Camp Maintenance Laborer; Carpenter Tenders; Choke Setters, Hook Tender, Rigger, Signalman; Concrete Laborer (curb and gutter, chute handler, grouting, curing, screeding); Crusher Plant Laborer; Demolition Laborer; Ditch Diggers; Dump Man; Environmental Laborer (asbestos (limited

to nonmechanical systems), hazardous and toxic waste, oil spill); Fence Installer; Fire Watch Laborer; Flagman; Form Strippers; General Laborer; Guardrail Laborer, Bridge Rail Installers; Hydro-Seeder Nozzleman; Laborers (building); Landscape or Planter; Material Handlers; Pneumatic or Power Tools; Portable or Chemical Toilet Serviceman; Pump Man or Mixer Man; Railroad Track Laborer; Sandblast, Pot Tender; Saw Tenders; Scaffold Building and Erecting; Slurry Work; Stake Hopper; Steam Point or Water Jet Operator; Steam Cleaner Operator; Tank Cleaning; Utiliwalk and Utilidor Laborer; Watchman (construction projects); Window Cleaner

GROUP 2: Burning and Cutting Torch; Cement or Lime Dumper or Handler (sack or bulk); Choker Splicer; Chucktender (wagon, airtrack and hydraulic drills); Concrete Laborers (power buggy, concrete saws, pumpcrete nozzleman, vibratorman); Environmental Laborer (marine work); Foam Gun or Foam Machine Operator; Green Cutter (dam work); Guardrail Machine Operator; Gunnite Operator; Hod Carriers; Jackhammer or Pavement Breakers (more than 45 pounds); Mason Tender and Mud Mixer (sewer work); Plasterer, Bricklayer and Cement Finisher Tenders; Power Saw Operator; Railroad Switch Layout Laborer; Sandblaster; Sewer Caulkers; Sewer Plant Maintenance Man; Thermal Plastic Applicator; Timber Faller, chain saw operator, filer; Timberman

GROUP 3: Bit Grinder; Drill Doctor (in the field); Drillers (including, but not limited to, wagon drills, air track drills; hydraulic drills); High Rigger and tree topper; Higher Scaler; Pioneer Drilling and Drilling Off Tugger (all type drills); Powderman; Slurry Seal Squeegee Man

GROUP 3A: Asphalt Raker, Asphalt Belly dump lay down; Grade checker (setting or transferring of grade marks, line and grade); Pipelayers

GROUP 4: Final Building Cleanup

TUNNELS, SHAFTS, AND RAISES CLASSIFICATIONS

GROUP 1: Brakeman; Muckers; Nippers; Topman and Bull Gang; Tunnel Track Laborer

GROUP 2: Burning and Cutting Torch; Concrete Laborers; Jackhammers; Laser Instrument Operators; Nozzleman, Pumpcrete or Shotcrete; Pipelayers.

GROUP 3: Miner; Retimberman

GROUP 3A: Powderman

Tunnel shaft and raise rates only apply to workers regularly employed inside a tunnel portal or shaft collar.

* PLAS0867-004 04/01/2004

	Rates	Fringes
Cement Mason		
North of the 63rd		
Parallel.....	\$ 29.54	11.51
South of the 63rd		
Parallel.....	\$ 29.29	11.51

TEAM0959-003 09/01/2003

	Rates	Fringes
Truck Driver		
GROUP 1.....	\$ 32.10	10.07
GROUP 1A.....	\$ 33.15	10.07

GROUP 2.....	\$ 31.05	10.07
GROUP 3.....	\$ 30.37	10.07
GROUP 4.....	\$ 29.90	10.07
GROUP 5.....	\$ 29.26	10.07

GROUP 1: Semi with Double Box Mixer; Dump Trucks (including rockbuggy and trucks with pups) over 40 yards up to and including 60 yards; Deltas, Commanders, Rollogans and similar equipment when pulling sleds, trailers or similar equipment; Boat Coxswain; Lowboys including attached trailers and jeeps, up to and including 12 axles; Ready-mix over 12 yards up to and including 15 yards)

GROUP 1A: Dump Trucks (including Rockbuggy and Trucks with pups) over 60 yards up to and including 100 yards

GROUP 2: Turn-O-Wagon or DW-10 not self-loading; All Deltas, Commanders, Rollogans, and similar equipment; Mechanics; Tireman, heavy duty; Dump Trucks (including Rockbuggy and Trucks with pups) over 20 yards up to and including 40 yards; Lowboys including attached trailers and jeeps up to and including 8 axles; Super vac truck/cacasco truck/heat stress truck; Ready-mix over 7 yards up to and including 12 yards

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(air/water/oilfield); Ready Mix, up to and including 7 yards

GROUP 5: Gravel Spreader Box Operator on Truck; Flat Beds, single rear axle; Boom Truck/Knuckle Truck up to and including 5 tons; Pickups (Pilot Cars and all light duty vehicles); Water Wagon, single axle; Gin Pole Truck, Winch Truck, Wrecker, Truck Mounted "A" Frame, manufactured rating 5 tons and under; Bull Lifts and Fork Lifts (fork lifts with power broom and swing attachments up to and including 5 tons); Buffer Truck; Tack Truck; Bus Operators (up to 30 passengers); Farm type Rubber Tired Tractor (when material handling or pulling wagons on a construction project); Foam Distributor, single axle; Hydro-Seeders, single axle; Team Drivers (horses, mules and similar equipment); Rigger (warehouse operation); Fuel Handler (station/bulk attendant); Batch Truck, up to and including 7 yards

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.
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Unlisted classifications needed for work not included within
the scope of the classifications listed may be added after
award only as provided in the labor standards contract clauses
(29 CFR 5.5 (a) (1) (ii)).

In the listing above, the "SU" designation means that rates
listed under the identifier do not reflect collectively
bargained wage and fringe benefit rates. Other designations
indicate unions whose rates have been determined to be
prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can
be:

- * an existing published wage determination
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a wage determination matter
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On survey related matters, initial contact, including requests
for summaries of surveys, should be with the Wage and Hour
Regional Office for the area in which the survey was conducted
because those Regional Offices have responsibility for the
Davis-Bacon survey program. If the response from this initial
contact is not satisfactory, then the process described in 2.)
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2.) If the answer to the question in 1.) is yes, then an
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The request should be accompanied by a full statement of the
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payment data, project description, area practice material,
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Washington, DC 20210

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END OF GENERAL DECISION

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SECTION 01356

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- 1.2 GENERAL
- 1.3 SUBMITTALS
- 1.4 EROSION AND SEDIMENT CONTROLS
 - 1.4.1 Stabilization Practices
 - 1.4.1.1 Unsuitable Conditions
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 - 1.4.2 Structural Practices
 - 1.4.2.1 AM#2...Silt Fences...AM#2
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SECTION 01356

STORM WATER POLLUTION PREVENTION MEASURES

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

STATE OF ALASKA ADMINISTRATIVE CODE (AAC)

18 AAC 72 Wastewater Disposal

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM D 4439	(1997) Standard Terminology for Geosynthetics
ASTM D 4491	(1996) Water Permeability of Geotextiles by Permittivity
ASTM D 4533	(1991; R 1996) Trapezoid Tearing Strength of Geotextiles
ASTM D 4632	(1991; R 1996)) Grab Breaking Load and Elongation of Geotextiles
ASTM D 4751	(1995) Determining Apparent Opening Size of a Geotextile
ASTM D 4873	(1995) Identification, Storage, and Handling of Geosynthetic Rolls

1.2 GENERAL

The Contractor shall implement the storm water pollution prevention measures specified in this section in a manner which will meet the requirements of SECTION 01410 ENVIRONMENTAL PROTECTION, and the requirements of the National Pollution Discharge Elimination System (NPDES) permit attached to that Section.

1.3 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be

submitted in accordance with SECTION 01330 SUBMITTAL PROCEDURES:

SD-01 Preconstruction Submittals

Storm Water Pollution Prevention Plan (SWPPP);G.

Notice of Intent for Storm Water Damages (NOI);G.

Description of the Project;G.

Notice of Termination of Coverage (NOT);G.

SD-07 Certificates

Mill Certificate or Affidavit; G.

Certificate attesting that the Contractor has met all specified requirements.

1.4 EROSION AND SEDIMENT CONTROLS

The controls and measures required by the Contractor are described below.

1.4.1 Stabilization Practices

The stabilization practices to be implemented shall include mulching, geotextiles, erosion control mats, protection of trees, preservation of mature vegetation, etc. On his daily CQC Report, the Contractor shall record the dates when the major grading activities occur, (e.g., clearing and grubbing, excavation, embankment, and grading); when construction activities temporarily or permanently cease on a portion of the site; and when stabilization practices are initiated. Except as provided in paragraphs UNSUITABLE CONDITIONS and NO ACTIVITY FOR LESS THAN 21 DAYS, stabilization practices shall be initiated as soon as practicable, but no more than 14 days, in any portion of the site where construction activities have permanently ceased.

1.4.1.1 Unsuitable Conditions

Where the initiation of stabilization measures by the fourteenth day after construction activity permanently ceases is precluded by unsuitable conditions caused by the weather, stabilization practices shall be initiated as soon as practicable after conditions become suitable.

1.4.1.2 No Activity for Less Than 21 Days

Where construction activity will resume on a portion of the site within 21 days from when activities ceased (e.g., the total time period that construction activity is temporarily ceased is less than 21 days), then stabilization practices do not have to be initiated on that portion of the site by the fourteenth day after construction activity temporarily ceased.

1.4.2 Structural Practices

Structural practices shall be implemented to divert flows from exposed soils, temporarily store flows, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Structural practices shall be implemented in a timely manner during the construction process to minimize erosion and sediment runoff. Structural practices shall include the following devices.

1.4.2.1 AM#2...Silt Fences...AM#2

AM#2...The Contractor shall provide silt fences as a temporary structural practice to minimize erosion and sediment runoff. Silt fences shall be properly installed to effectively retain sediment immediately after completing each phase of work where erosion would occur in the form of sheet and rill erosion (e.g. clearing and grubbing, excavation, embankment, and grading). Final removal of silt fence barriers shall be upon approval by the Contracting Officer....AM#2

1.4.2.2 Straw Bales

The Contractor shall provide bales of straw as a temporary structural practice to minimize erosion and sediment runoff. Bales shall be properly placed to effectively retain sediment immediately after completing each phase of work (e.g., clearing and grubbing, excavation, embankment, and grading) in each independent runoff area (e.g., after clearing and grubbing in a area between a ridge and drain, bales shall be placed as work progresses; bales shall be removed/replaced/relocated as needed for work to progress in the drainage area). Final removal of straw bale barriers shall be upon approval by the Contracting Officer. Rows of bales of straw shall be provided as follows:

- a. Along the downhill perimeter edge of all areas disturbed.
- b. Along the top of the slope or top bank of drainage ditches, channels, swales, etc. that traverse disturbed areas.
- c. Along the toe of all cut slopes and fill slopes of the construction areas.
- d. Perpendicular to the flow in the bottom of existing drainage ditches, channels, swales, etc. that traverse disturbed areas or carry runoff from disturbed areas. Rows shall be spaced a maximum of 200 feet apart.
- e. At the entrance to culverts that receive runoff from disturbed areas.
- f. The Contractor shall take all steps necessary to ensure that debris from the straw bales do not float downstream and clog the intake of the fish hatchery.

1.4.2.3 Diversion Dikes

Diversion dikes shall have a maximum channel slope of 2 percent and shall be adequately compacted to prevent failure. The minimum height measured

from the top of the dike to the bottom of the channel shall be 18 inches. The minimum base width shall be 6 feet and the minimum top width shall be 2 feet. The Contractor shall ensure that the diversion dikes are not damaged by construction operations or traffic.

1.5 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

Work shall comply with EPA NPDES General Permit

1.5.1 Storm Water Pollution Prevention Plan (SWPPP)

The Contractor shall prepare a Storm Water Pollution Prevention Plan (SWPPP) in accordance with the Environmental Protection Agency's NPDES General Permits for Storm Water Discharges from Construction Activities published in the Federal Registry Tuesday, February 17, 1998, pages 7901-8014. The Contractor is also responsible for the compliance with any updates and changes to this permit. The Contracting Officer will retain authority assigned therein to the State. The SWPPP shall be submitted to the Contracting Officer for review and approval as part of the Environmental Protection Plan specified in SECTION 01410 ENVIRONMENTAL PROTECTION.

1.5.2 Notice of Intent for Storm Water Damages (NOI) (NOI)

The Contractor shall complete EPA Form 3510-9, Notice of Intent for Storm Water Discharges Associated with Construction Activity Under a NPDES General Permit, in accordance with the aforementioned manual. A copy of the form is attached hereto and made a part of these specifications. Sections II and III have been completed in advance by the Government for this project. The Contractor shall complete Sections I, IV, and V and submit the form, along with the SWPPP, a one page description of the project, a copy of the Civil Drawings, and prepaid mailing envelopes for the whole package to the Contracting Officer for review.

1.5.3 Filing

Upon receipt of satisfactory submittal from the Contractor, the Resident Engineer will promptly complete a separate 3510-9, for the Government, and forward both the Contractor-prepared and Resident Engineer-prepared forms to the NPDES Program Director. In accordance with applicable requirements, no onsite work shall be performed until two days after the documents have been post marked, notwithstanding any other provisions of the contract.

The Government will forward copies of both Form 3510-9's, along with the SWPPP, the one page description, and the civil drawings to the Alaska Department of Environmental Conservation (ADEC) in accordance with State of Alaska regulations. The Contractor shall pay all fees required for review in accordance with 18 AAC 72.

1.5.4 Notice of Termination of Coverage (NOT)

Upon completion of work at the project site, the Contractor shall prepare EPA Form 3510-7, Notice of Termination of Coverage Under the NPDES General

Permit for Storm Water Discharges Associated with Construction Activity, in accordance with the regulations stated on the form. A copy of the form is attached hereto and made a part of these specifications. The completed form and prepaid mailing envelopes shall be submitted to the Contracting Officer within 10 days after the earliest date that final site conditions meet filing requirements. The Resident Engineer will promptly complete a separate 3510-13, for the Government. The Government will forward both forms to the NPDES Program Director.

PART 2 PRODUCTS

2.1 COMPONENTS FOR SILT FENCES

2.1.1 Filter Fabric

The geotextile shall comply with the requirements of ASTM D 4439, and shall consist of polymeric filaments which are formed into a stable network such that filaments retain their relative positions. The filament shall consist of a long-chain synthetic polymer composed of at least 85 percent by weight of ester, propylene, or amide, and shall contain stabilizers and/or inhibitors added to the base plastic to make the filaments resistance to deterioration due to ultraviolet and heat exposure. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six months of expected usable construction life at a temperature range of 0 to 120 degrees F. The filter fabric shall meet the following requirements:

FILTER FABRIC FOR SILT SCREEN FENCE

PHYSICAL PROPERTY	TEST PROCEDURE	STRENGTH REQUIREMENT
Grab Tensile	ASTM D 4632	100 lbs. min.
Elongation (%)		30 % max.
Trapezoid Tear	ASTM D 4533	55 lbs. min.
Permittivity	ASTM D 4491	0.2 sec-1
AOS (U.S. Std Sieve)	ASTM D 4751	20-100

2.1.2 Silt Fence Stakes and Posts

The Contractor may use either wooden stakes or steel posts for fence construction. Wooden stakes utilized for silt fence construction, shall have a minimum cross section of 2 inches by 2 inches when oak is used and 4 inches by 4 inches when pine is used, and shall have a minimum length of 5 feet. Steel posts (standard "U" or "T" section) utilized for silt fence construction, shall have a minimum mass of weight of 1.33 pounds per linear foot and a minimum length of 5 feet.

2.1.3 Mill Certificate or Affidavit

A mill certificate or affidavit shall be provided attesting that the fabric and factory seams meet chemical, physical, and manufacturing requirements

specified above. The mill certificate or affidavit shall specify the actual Minimum Average Roll Values and shall identify the fabric supplied by roll identification numbers. The Contractor shall submit a mill certificate or affidavit signed by a legally authorized official from the company manufacturing the filter fabric.

2.1.4 Identification Storage and Handling

Filter fabric shall be identified, stored and handled in accordance with ASTM D 4873.

2.2 COMPONENTS FOR STRAW BALES

The straw in the bales shall be stalks from oats, wheat, rye, barley, rice, or from grasses such as byhalia, bermuda, etc., furnished in air dry condition. The bales shall have a standard cross section of 14 inches by 18 inches. All bales shall be either wire-bound or string-tied. The Contractor may use either wooden stakes or steel posts to secure the straw bales to the ground. Wooden stakes utilized for this purpose, shall have a minimum dimensions of 2 inches x 2 inches in cross section and shall have a minimum length of 3 feet. Steel posts (standard "U" or "T" section) utilized for securing straw bales, shall have a minimum weight of 1.33 pounds per linear foot and a minimum length of 3 feet.

PART 3 EXECUTION

3.1 INSTALLATION OF SILT FENCES

Silt fences shall extend a minimum of 16 inches above the ground surface and shall not exceed 34 inches above the ground surface. Filter fabric shall be from a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are unavoidable, filter fabric shall be spliced together at a support post, with a minimum 6 inch overlap, and securely sealed. A trench shall be excavated approximately 4 inches wide and 4 inches deep on the upslope side of the location of the silt fence. The 4-inch by 4-inch trench shall be backfilled and the soil compacted over the filter fabric. Silt fences shall be removed upon approval by the Contracting Officer.

3.2 INSTALLATION OF STRAW BALES

Straw bales shall be placed in a single row, lengthwise on the contour, with ends of adjacent bales tightly abutting one another. Straw bales shall be installed so that bindings are oriented around the sides rather than along the tops and bottoms of the bales in order to prevent deterioration of the bindings. The barrier shall be entrenched and backfilled. A trench shall be excavated the width of a bale and the length of the proposed barrier to a minimum depth of 4 inches. After the bales are staked and chinked (gaps filled by wedging with straw), the excavated soil shall be backfilled against the barrier. Backfill soil shall conform to the ground level on the downhill side and shall be built up to 4 inches against the uphill side of the barrier. Loose straw shall be scattered over the area immediately uphill from a straw bale barrier to increase barrier efficiency. Each bale shall be securely anchored by at least two

stakes driven through the bale. The first stake or steel post in each bale shall be driven toward the previously laid bale to force the bales together. Stakes or steel pickets shall be driven a minimum 18 inches deep into the ground to securely anchor the bales.

3.3 MAINTENANCE

The Contractor shall maintain the temporary and permanent vegetation, erosion and sediment control measures, and other protective measures in good and effective operating condition by performing routine inspections to determine condition and effectiveness, by restoration of destroyed vegetative cover, and by repair of erosion and sediment control measures and other protective measures. The following procedures shall be followed to maintain the protective measures.

3.3.1 Silt Fence Maintenance

Silt fences shall be inspected in accordance with paragraph INSPECTIONS. Any required repairs shall be made promptly. Close attention shall be paid to the repair of damaged silt fence resulting from end runs and undercutting. Should the fabric on a silt fence decompose or become ineffective, and the barrier is still necessary, the fabric shall be replaced promptly. Sediment deposits shall be removed when deposits reach one-third of the height of the barrier. When a silt fence is no longer required, it shall be removed. The immediate area occupied by the fence and any sediment deposits shall be shaped to an acceptable grade. The areas disturbed by this shaping shall be revegetated as needed to control erosion.

3.3.2 Straw Bale Maintenance

Straw bale barriers shall be inspected in accordance with paragraph INSPECTIONS. Close attention shall be paid to the repair of damaged bales, end runs and undercutting beneath bales. Necessary repairs to barriers or replacement of bales shall be accomplished promptly. Sediment deposits shall be removed when deposits reach one-half of the height of the barrier. Bale rows used to retain sediment shall be turned uphill at each end of each row. When a straw bale barrier is no longer required, it shall be removed. The immediate area occupied by the bales and any sediment deposits shall be shaped to an acceptable grade. The areas disturbed by this shaping shall be revegetated as needed to control erosion.

3.3.3 Diversion Dike Maintenance

Diversion dikes shall be inspected in accordance with paragraph INSPECTIONS. Close attention shall be paid to the repair of damaged diversion dikes and necessary repairs shall be accomplished promptly. When diversion dikes are no longer required, they shall be shaped to an acceptable grade. The areas disturbed by this shaping shall be revegetated as needed to control erosion.

3.4 INSPECTIONS

3.4.1 General

The Contractor shall inspect disturbed areas of the construction site, areas used for storage of materials that are exposed to precipitation that have not been finally stabilized, stabilization practices, structural practices, other controls, and area where vehicles exit the site at least once every seven (7) calendar days and within 24 hours of the end of any storm that produces 0.5 inches or more rainfall at the site. Where sites have been finally stabilized, such inspection shall be conducted at least once every month.

3.5 Inspections Details

Disturbed areas shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the Storm Water Pollution Prevention Plan shall be observed to ensure that they are operating correctly. Discharge locations or points shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles exit the site shall be inspected for evidence of offsite sediment tracking.

3.6 Inspection Reports

For each inspection conducted, the Contractor shall prepare a report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the Storm Water Pollution Prevention Plan, maintenance performed, and actions taken. The report shall be furnished to the Contracting Officer within 24 hours of the inspection as a part of the Contractor's daily CQC REPORT. A copy of the inspection report shall be maintained on the job site.

3.7 ATTACHMENTS

EPA Form 3510-9, Notice of Intent for Storm Water Discharges Associated with Construction Activity Under a NPDES General Permit

EPA Form 3510-7, Notice of Termination of Coverage under a NPDES General Permit for Storm Water Discharges Associated with Construction Activity

See Reverse for Instructions

NPDES
FORM



United States Environmental Protection Agency
Washington, DC 20460

**Notice of Intent (NOI) for Storm Water Discharges Associated with
CONSTRUCTION ACTIVITY Under a NPDES General Permit**

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by a NPDES permit issued for storm water discharges associated with construction activity in the State/Indian Country Land identified in Section II of this form. Submission of this Notice of Intent also constitutes notice that the party identified in Section I of this form meets the eligibility requirements in Part I.B. of the general permit (including those related to protection of endangered species determined through the procedures in Addendum A of the general permit), understands that continued authorization to discharge is contingent on maintaining permit eligibility, and that implementation of the Storm Water Pollution Prevention Plan required under Part IV of the general permit will begin at the time the permittee commences work on the construction project identified in Section II below. **IN ORDER TO OBTAIN AUTHORIZATION, ALL INFORMATION REQUESTED MUST BE INCLUDED ON THIS FORM. SEE INSTRUCTIONS ON BACK OF FORM.**

I. Owner/Operator (Applicant) Information

Name: _____ Phone: _____
 Address: _____ Status of Owner/Operator:
 City: _____ State: _____ Zip Code: _____

II. Project/Site Information

Is the facility located on Indian Country Lands?
 Yes No

Project Name: _____
 Project Address/Location: _____
 City: _____ State: _____ Zip Code: _____
 Latitude: _____ Longitude: _____ County: _____
 Has the Storm Water Pollution Prevention Plan (SWPPP) been prepared? Yes No
 Optional: Address of location of SWPPP for viewing Address in Section I above Address in Section II above Other address (if known) below:
 SWPPP Address: _____ Phone: _____
 City: _____ State: _____ Zip Code: _____
 Name of Receiving Water: _____

 Month Day Year Month Day Year

Estimated Construction Start Date Estimated Completion Date

Estimate of area to be disturbed (to nearest acre): _____

Estimate of Likelihood of Discharge (choose only one):

1. Unlikely 3. Once per week 5. Continual
 2. Once per month 4. Once per day

Based on instruction provided in Addendum A of the permit, are there any listed endangered or threatened species, or designated critical habitat in the project area?

Yes No

I have satisfied permit eligibility with regard to protection of endangered species through the indicated section of Part I.B.3.e.(2) of the permit (check one or more boxes):

(a) (b) (c) (d)

III. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: _____ Date: _____
 Signature: _____



Notice of Intent (NOI) for Storm Water Discharges Associated with Construction Activity to be Covered Under a NPDES Permit

Who Must File a Notice of Intent Form

Under the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et seq.; the Act), except as provided by Part I.B.3 the permit, Federal law prohibits discharges of pollutants in storm water from construction activities without a National Pollutant Discharge Elimination System Permit. Operator(s) of construction sites where 5 or more acres are disturbed, smaller sites that are part of a larger common plan of development or sale where there is a cumulative disturbance of at least 5 acres, or any site designated by the Director, must submit an NOI to obtain coverage under an NPDES Storm Water Construction General Permit. If you have questions about whether you need a permit under the NPDES Storm Water program, or if you need information as to whether a particular program is administered by EPA or a State agency, write to or telephone the Notice of Intent Processing Center at (703) 931-3230.

Where to File NOI Form

NOIs must be sent to the following address:

Storm Water Notice of Intent (4203)
USEPA
401 M. Street, SW
Washington, D.C. 20460

Do not send Storm Water Pollution Prevention Plans (SWPPPs) to the above address. For overnight/express delivery of NOIs, please include the room number 2104 Northeast Mall and phone number (202) 260-9541 in the address.

When to File

This form must be filed at least 48 hours before construction begins.

Completing the Form

OBTAIN AND READ A COPY OF THE APPROPRIATE EPA STORM WATER CONSTRUCTION GENERAL PERMIT FOR YOUR AREA. To complete this form, type or print, using uppercase letters, in the appropriate areas only. Please place each character between the marks (abbreviate if necessary to stay within the number of characters allowed for each item). Use one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. If you have any questions on this form, call the Notice of Intent Processing Center at (703) 931-3230.

Section I. Facility Owner/Operator (Applicant) Information

Provide the legal name, mailing address, and telephone number of the person, firm, public organization, or any other entity that meet either of the following two criteria: (1) they have operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or (2) they have the day-to-day operational control of those activities at the project necessary to ensure compliance with SWPPP requirements or other permit conditions. Each person that meets either of these criteria must file this form. Do not use a colloquial name. Correspondence for the permit will be sent to this address.

Enter the appropriate letter to indicate the legal status of the owner/operator of the project: F = Federal; S = State; M = Public (other than federal or state); P = Private.

Section II. Project/Site Information

Enter the official or legal name and complete street address, including city, county, state, zip code, and phone number of the project or site. If it lacks a street address, indicate with a general statement the location of the site (e.g., Intersection of State Highways 61 and 34). Complete site information must be provided for permit coverage to be granted.

The applicant must also provide the latitude and longitude of the facility in degrees, minutes, and seconds to the nearest 15 seconds. The latitude and longitude of your facility can be located on USGS quadrangle maps. Quadrangle maps can be obtained by calling 1-800 USA MAPS. Longitude and latitude may also be obtained at the Census Bureau Internet site: <http://www.census.gov/cgi-bin/gazetteer>.

Latitude and longitude for a facility in decimal form must be converted to degrees, minutes and seconds for proper entry on the NOI form. To convert decimal latitude or longitude to degrees, minutes, and seconds, follow the steps in the following example.

Convert decimal latitude 45.1234567 to degrees, minutes, and seconds.

- 1) The numbers to the left of the decimal point are degrees.
- 2) To obtain minutes, multiply the first four numbers to the right of the decimal point by 0.006. $1234 \times .006 = 7.404$.
- 3) The numbers to the left of the decimal point in the result obtained in step 2 are the minutes: 7'.
- 4) To obtain seconds, multiply the remaining three numbers to the right of the decimal from the result in step 2 by 0.06: $404 \times 0.06 = 24.24$. Since the numbers to the right of the decimal point are not used, the result is 24".
- 5) The conversion for 45.1234 = 45° 7' 24".

Indicate whether the project is on Indian Country Lands.

Indicate if the Storm Water Pollution Prevention Plan (SWPPP) has been developed. Refer to Part IV of the general permit for information on SWPPPs. To be eligible for coverage, a SWPPP must have been prepared.

Optional: Provide the address and phone number where the SWPPP can be viewed if different from addresses previously given. Check appropriate box.

Enter the name of the closest water body which receives the project's construction storm water discharge.

Enter the estimated construction start and completion dates using four digits for the year (i.e. 05/27/1998).

Enter the estimated area to be disturbed including but not limited to: grubbing, excavation, grading, and utilities and infrastructure installation. Indicate to the nearest acre; if less than 1 acre, enter "1." Note: 1 acre = 43,560 sq. ft.

Indicate your best estimate of the likelihood of storm water discharges from the project. EPA recognizes that actual discharges may differ from this estimate due to unforeseen or chance circumstances.

Indicate if there are any listed endangered or threatened species, or designated critical habitat in the project area.

Indicate which Part of the permit that the applicant is eligible with regard to protection of endangered or threatened species, or designated critical habitat.

Section III. Certification

Federal Statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner of the proprietor, or

For a municipality, state, federal, or other public facility: by either a principal executive or ranking elected official. An unsigned or undated NOI form will not be granted permit coverage.

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 3.7 hours. This estimate includes time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Director, OPPE Regulatory Information Division (2137), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, D.C. 20460. Include the OMB control number on any correspondence. Do not send the completed form to this address.

THIS FORM REPLACES PREVIOUS FORM 3510-7 (8-92)

Form Approved. OMB No. 2040-0088
Approval expires: 8-31-98

Please See Instructions Before Completing This Form

NPDES
FORM



United States Environmental Protection Agency
Washington, DC 20460

Notice of Termination (NOT) of Coverage Under a NPDES General Permit for Storm Water Discharges Associated with Industrial Activity

Submission of this Notice of Termination constitutes notice that the party identified in Section II of this form is no longer authorized to discharge storm water associated with industrial activity under the NPDES program. ALL NECESSARY INFORMATION MUST BE PROVIDED ON THIS FORM.

I. Permit Information

NPDES Storm Water General Permit Number: _____

Check Here if You are No Longer the Operator of the Facility:

Check Here if the Storm Water Discharge is Being Terminated:

II. Facility Operator Information

Name: _____ Phone: _____

Address: _____

City: _____ State: _____ ZIP Code: _____

III. Facility/Site Location Information

Name: _____

Address: _____

City: _____ State: _____ ZIP Code: _____

Latitude: _____ Longitude: _____ Quarter: _____ Section: _____ Township: _____ Range: _____

IV. Certification: I certify under penalty of law that all storm water discharges associated with industrial activity from the identified facility that are authorized by a NPDES general permit have been eliminated or that I am no longer the operator of the facility or construction site. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge storm water associated with industrial activity under this general permit, and that discharging pollutants in storm water associated with industrial activity to waters of the United States is unlawful under the Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this Notice of Termination does not release an operator from liability for any violations of this permit or the Clean Water Act.

Print Name: _____ Date: _____

Signature: _____

Instructions for Completing Notice of Termination (NOT) Form

Who May File a Notice of Termination (NOT) Form

Permittees who are presently covered under an EPA-issued National Pollutant Discharge Elimination System (NPDES) General Permit (including the 1995 Multi-Sector Permit) for Storm Water Discharges Associated with Industrial Activity may submit a Notice of Termination (NOT) form when their facilities no longer have any storm water discharges associated with industrial activity as defined in the storm water regulations at 40 CFR 122.26(b)(14), or when they are no longer the operator of the facilities.

For construction activities, elimination of all storm water discharges associated with industrial activity occurs when disturbed soils at the construction site have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time, or that all storm water discharges associated with industrial activity from the construction site that are authorized by a NPDES general permit have otherwise been eliminated. Final stabilization means that all soil-disturbing activities at the site have been completed, and that a uniform perennial vegetative cover with a density of 70% of the cover for unpaved areas and areas not covered by permanent structures has been established, or equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.

Where to File NOT Form

Send this form to the the following address:

Storm Water Notice of Termination (4203)
401 M Street, S.W.
Washington, DC 20460

Completing the Form

Type or print, using upper-case letters, in the appropriate areas only. Please place each character between the marks. Abbreviate if necessary to stay within the number of characters allowed for each item. Use only one space for breaks between words, but not for punctuation marks unless they are needed to clarify your response. If you have any questions about this form, telephone or write the Notice of Intent Processing Center at (703) 931-3230.

Instructions - EPA Form 3510-7
Notice of Termination (NOT) of Coverage Under The NPDES General Permit
for Storm Water Discharges Associated With Industrial Activity

Section I Permit Information

Enter the existing NPDES Storm Water General Permit number assigned to the facility or site identified in Section III. If you do not know the permit number, telephone or write your EPA Regional storm water contact person.

Indicate your reason for submitting this Notice of Termination by checking the appropriate box:

If there has been a change of operator and you are no longer the operator of the facility or site identified in Section III, check the corresponding box.

If all storm water discharges at the facility or site identified in Section III have been terminated, check the corresponding box.

Section II Facility Operator Information

Give the legal name of the person, firm, public organization, or any other entity that operates the facility or site described in this application. The name of the operator may or may not be the same name as the facility. The operator of the facility is the legal entity which controls the facility's operation, rather than the plant or site manager. Do not use a colloquial name. Enter the complete address and telephone number of the operator.

Section III Facility/Site Location Information

Enter the facility's or site's official or legal name and complete address, including city, state and ZIP code. If the facility lacks a street address, indicate the state, the latitude and longitude of the facility to the nearest 15 seconds, or the quarter, section, township, and range (to the nearest quarter section) of the approximate center of the site.

Section IV Certification

Federal statutes provide for severe penalties for submitting false information on this application form. Federal regulations require this application to be signed as follows:

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities employing more than 250 persons or having gross annual sales or expenditures exceeding \$25 million (in second-quarter 1980 dollars), if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor; or

For a municipality, State, Federal, or other public facility: by either a principal executive officer or ranking elected official.

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 0.5 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of the collection of information, or suggestions for improving this form, including any suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, 2136, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

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DIVISION 02 - SITE WORK

SECTION 02270

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-- End of Section Table of Contents --

SECTION 02270

ROCK

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

ASTM C 127-88 (R93)	Specific Gravity and Absorption of Coarse Aggregate
ASTM D 422-90	Standard Test Method for Particle-size Analysis of Soils
ASTM D 2487-93	Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System)

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with SECTION 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Final Cross-Sections and Quantity Computations;G.

SD-03 Product Data

Rock Quality; G.

Laboratory results of tests specified to identify quality of materials.

Gradation Tests; G.

Test results using methods specified for gradation and size of materials produced.

SD-06 Test Reports

Quarry Development Plan; G.

Appendix B provides guidance for preparation of plan concerning the development and operation of a quarry.

PART 2 PRODUCTS

2.1 ROCK SOURCE

There is no Government furnished or designated rock source for this project. The Contractor shall obtain rock which meets all requirements specified herein. All Federal, State and local laws and regulations pertaining to surface mining, safety, and protection of the environment shall be complied with in furnishing the rock. The Contractor shall be responsible for all permits and/or easements for the rock source. The Contractor shall identify its proposed rock source during the pre-award survey.

2.1.1 Quarry Development Plan

The Corps of Engineers, Alaska District, has entered into a Letter of Agreement (LOA) with the State of Alaska, and a separate LOA with the U.S. Fish and Wildlife Service concerning development and operation of quarry sites for Civil Works Projects administered by the Corps of Engineers. The LOA's are enclosed herein as Appendix A. These LOA's require the Contractor to submit through the Contracting Officer to the U.S. Fish and Wildlife Service and to the State of Alaska a quarry development plan for review and approval under the conditions stipulated in the LOA's. The Contractor shall perform in accordance with these LOA's. A quarry development plan is required for all new and existing quarries to be utilized for this contract. The Contractor shall prepare a quarry development plan according to the requirements specified in Appendix B.

Development of a new quarry site or using an existing quarry site for furnishing rock required by this contract requires the review by Local, State and Federal agencies. A new quarry site will require the reopening of the National Environmental Policy Act (NEPA) process and a determination by the State of Alaska for consistency with its Coastal Management Program.

Expansion of an existing quarry site may also require reopening the process. The Contractor shall allow enough time in the schedule for the procedure described in Appendix A. Reopening of the NEPA process and review with the State's Coastal Management Program may take a year or more to complete. The Contractor is responsible for investigating and obtaining all necessary reviews and permits from Local, State and Federal agencies. The Contractor is responsible for all of its (the Contractor's) costs and delays caused by the review process and permit requirements.

2.1.2 Retainage

Ten percent of payment for rock related items of work will be withheld, in addition to any other retainages, until all environmental requirements of the quarry development plan have been complied with.

2.2 ROCK QUALITY

Laboratory tests and visual geologic examinations shall be made to determine acceptability of materials. Rock shall be composed of hard, strong, durable materials that will not deteriorate upon exposure to the action of water or atmosphere. The rock shall not contain cracks, joints, faults, or bands of minerals or deleterious materials which would result in breakage during or after placement. Materials shall meet the following test requirements for quality:

<u>TEST</u>	<u>RESULTS</u>
1. Specific Gravity, BSSD ASTM C 127-88 (R93)	Not less than 2.4
2. Absorption ASTM C 127-88 (R93)	Not greater than 2.5%
3. Freeze-Thaw (300 cycles) NPD Lab Method (Described in App. C)	Not greater than 10.0% loss by weight
4. Wetting-Drying (300 cycles) NPD Lab Method (Described in App. C)	Not greater than 10.0% loss by weight

2.2.1 Testing

Testing shall be the responsibility of the Contractor and shall be performed by an independent commercial test laboratory currently approved by the Corps of Engineers. The Contractor shall furnish certified, complete copies of all test results to the Contracting Officer.

2.3 ROCK QUALITY ACCEPTANCE

All rock will be accepted or rejected at the job site based on test results and visual geologic examination by the Government. Test results shall be furnished to the Government 30 days prior to any placement of rock. No further laboratory testing of rock will be necessary if results meet the requirements specified, and a continuous visual geologic examination of the rock by the Government indicates no change in rock type or quality for rock passing the laboratory tests. Rock exhibiting significant changes in type or quality will be rejected unless additional testing shows that the rock meets the specified requirements.

2.4 ROCK GRADATION, SIZE, ANGULARITY

2.4.1 AM#2...General...AM#2

The rock, after processing, shall be angular and conform to the size requirements indicated below. Neither the breadth or thickness of any piece of armor rock shall be less than one-third its length. Operations of loading, placement or stockpiling shall be conducted in a manner which will prevent breakage.

a. Armor Rock. Armor rock shall be well graded within the following limits:

Specified Rock Weight (Pounds)	Allowable Percent Smaller By Weight
500	0-85%
300	0-50%
100	0-15%

No piece of armor rock shall weigh more than 700 pounds or less than 75 pounds.

b. Core Rock. Core rock shall be well graded within the following limits:

Specified Rock Weight (Pounds)	Allowable Percent Smaller By Weight
35	0-85%
25	0-50%
10	0-15%
2	0-1%

No piece of core rock shall weigh more than 75 pounds.

AM#2...c. Filter Material. Filter material shall be well-graded gravel (in accordance with ASTM D 2487-93) with a minimum of 15% retained on the 1.5 inch sieve and a maximum of 5 percent passing the number two-hundred (#200) sieve....AM#2

PART 3 EXECUTION

3.1 PRODUCTION TESTING

The Contractor shall perform the following minimum gradation tests. Samples shall be taken at the source of the materials, and at subsequent points during transport if directed. No failing tests shall count toward meeting the minimum number of representative tests. Tests shall be evenly spaced throughout production. Tests shall be by actual weighing. Results shall be provided to the Contracting Officer within 24 hours, or sooner if requested.

a. Armor and Core Rock. At least 10 representative tests of armor and core rock specified. Each sample shall be approximately 3 cubic yards in volume. Tests for armor and core rock shall consist of determining the total weight of all the rocks and the individual weight of each rock in the sample respectively. Percent smaller by weight shall be determined by dividing the total weight of the sample into the sum of the total weight of the rocks smaller than the specified rock weight.

b. Filter Material. At least 5 representative tests. Test size shall be approximately 500 pounds. Tests shall conform to ASTM D 422-90.

3.2 SIZING

The Contractor shall display at least one typical rock in each of the following weight ranges, within easy sight of the quarry loading area and at the project site, to ensure proper sizing. The weight shall be clearly marked on each rock.

600 to 700 Pounds

300 to 500 Pounds

75 to 100 Pounds

35 to 50 Pounds

3.3 PLACEMENT

All materials shall be placed in such a manner as to produce a well-keyed mass of rock with individual pieces tightly in contact, and with the least practicable amount of void spaces. It shall be assumed that cutting and removal of ice from the river will be required for rock placement during the winter. The cost of cutting and removing ice shall be included in the cost for rock placement. The finished surface shall be free from pockets of single size rock. Placement of small rock to choke the spaces between large rock, or for leveling the surface, will not be permitted. Breaking of individual pieces in place by blasting or mechanical methods will not be permitted. Armor and core rock shall be placed to the full course thickness at one operation and in such manner as to avoid displacing the underlying material. Placing by methods likely to cause segregation will not be permitted. The desired distribution of the various sizes of rock throughout the mass shall be obtained by selective loading at the quarry and by controlled placement of successive loads. Rearranging of rock by mechanical equipment or by hand will be required to the extent necessary to correct deficiencies, and to provide a uniform, tightly knit slope. Materials that do not meet the specified requirements for size, quality, or distribution of sizes shall be removed and replaced with suitable materials at no additional cost to the Government.

All rock shall be placed in a manner to avoid displacing underlying materials, placing undue impact force on underlying material, and to minimize chipping of rock. The rock shall be placed with minimum voids and with maximum interlocking. Rehandling of rock after initial placement may be required to achieve the above requirements. Equipment proposed for use shall be capable of placing the rock near it's final position before release and capable of moving the rock if necessary to it's final position.

Placement shall begin at the weighted toe and proceed up the slope placing rock to the full thickness in one operation. Casting or dropping of rock from a height greater than three (3) feet or moving by drifting or manipulating down the slope will not be permitted. If construction is expected to be delayed for a period of more than seven (7) days by storms, high flows in the river, or for any other reason, the terminal end of the armor and core rock shall be smoothly tapered into the existing river bottom contours.

3.3.1 Rock

Rock shall be placed on the existing and prepared slopes within the limits shown. The finished slopes shall present a uniform and regular surface not steeper than those shown. The Contractor shall maintain the rock until final acceptance. Any material displaced shall be replaced, at the Contractor's expense, to the slopes, lines, and grades shown on the drawings.

3.4 TOLERANCES

Armor rock, core rock, and filter material shall be placed to the full thickness shown on the drawings. No minus tolerance will be permitted. The total tolerance of plus 6-inches for armor rock, core rock, and filter material combined from the lines and grades shown on the drawings will be allowed, except that the extreme of such tolerance shall not be continuous over an area greater than 20 square yards. The outside slopes shall present a uniform appearance.

3.5 STOCKPILING

If material is stockpiled, the stockpile shall be constructed in lifts not exceeding 7.5 feet and the final height of stockpile shall not exceed 15 feet. Any method of stockpiling which could cause segregation within the stockpile or excessive breakage will not be permitted. Armor rock shall not be piled more than three rocks high.

3.6 **AM#2...SURVEYS...AM#2**

Surveys shall be performed as specified below and in accordance with SECTION 01016 SPECIAL ITEMS (CIVIL WORKS). Cross sections for each survey shall be taken at 25-foot stations along the control line(s). Soundings shall be taken at a minimum of 25-foot intervals along each station perpendicular to the control line(s), extending a minimum of 20 feet beyond the toe, and shall capture all break points. Additional surveys shall be conducted as required to control the Contractor's operations and placement of materials.

a. Pre-Construction Survey. A pre-construction survey shall be conducted prior to initial placement of any materials.

AM#2...b. Interim Condition Surveys. Interim condition surveys shall be conducted after placement of filter material and again after placement of core rock. Cross-sections of the interim condition surveys shall be plotted every two weeks in which required survey data has been collected and shall be provided to the Contracting Officer's Representative. The first cross-sections shall be provided two weeks after material placement begins and every two weeks thereafter. Cross-sections shall be plotted at a scale of 1"=20' both horizontally and vertically and shall show the existing ground, all the placed material and the correct design template for that 25-foot station together on the same axis. The design template shall be plotted with a different line type than the survey data. Deficiencies identified by

the interim surveys shall be corrected before continuing with placement of material. Acceptance of the cross-sections by the Contracting Officer's representative will not imply Government acceptance of the work....AM#2

c. Post-Construction Survey. A post-construction survey shall be conducted immediately following completion of the rock placement. The post-construction survey shall include the entire area within the construction boundary.

d. Final Cross-Sections and Quantity Computations. The surveyor shall plot final cross-sections generated from the pre-construction survey, interim condition surveys and the post-construction survey in the same manner as the interim condition surveys. All requirements of SECTION 01016SPECIAL ITEMS (CIVIL WORKS) shall be met. The surveyor shall also compute quantities for all material placed using the surveys listed above. The surveyor shall furnish quantities for each 25-foot station, compute the percent difference between the actual and design and show the information next to the plotted cross-sections. Final cross-sections and quantity computations shall be submitted to the Contracting Officer within (10) days of completion of the final survey.

3.7 ATTACHMENTS

Appendix 02270-A Letters of Agreement with the State of Alaska and USFWS

Appendix 02270-B Quarry Development Plan Requirements

Appendix 02270-C NPD Testing Methods

**APPENDIX A
LETTERS OF AGREEMENT WITH THE
STATE OF ALASKA
AND
U.S. FISH AND WILDLIFE SERVICE**

LETTER OF AGREEMENT
BETWEEN THE
ALASKA GOVERNOR'S OFFICE, DIVISION OF GOVERNMENTAL COORDINATION
AND THE
U.S. ARMY CORPS OF ENGINEERS, ALASKA DISTRICT
FOR
QUARRY SITE EVALUATION

This agreement provides guidance and establishes procedures for ensuring the consistency with the Alaska Coastal Management Program of quarry sites for Civil Works Projects administered by the U.S. Army Corps of Engineers (COE) that are located within or directly affect the state's coastal zone.

GENERAL:

The U.S. Army COE, Alaska District, will require a construction contractor to select a quarry site to provide rock necessary for construction of water resources projects and will not specify a quarry site in its Plans and Specifications. All permits and/or easements will be the responsibility of the contractor and the contractor will not be allowed to proceed with quarry site development until all permits and/or easements and the necessary ACMP consistency determination have been obtained.

The Division of Governmental Coordination (DGC) will coordinate the state's review of the contractor's selection for consistency with the Alaska Coastal Management Program (ACMP). This Letter of Agreement (LOA) allows for an appropriate consistency review of the quarry site, once it is selected by the contractor, as a direct federal action as provided by Section 307 of the federal Coastal Zone Management Act. The COE is responsible for implementing the terms of this LOA and for participating in consistency reviews, as necessary.

WORK REQUIRED DURING THE PROJECT STUDY PHASE:

The National Environmental Policy Act (NEPA) documentation and associated ACMP project consistency review will assume that the construction contractor will use an existing quarry site. The environmental assessment (EA) or environmental impact statement (EIS) will assess the impacts associated with quarry operations of a "generic existing quarry site" and will identify appropriate impact mitigation measures.

The State of Alaska, DGC will conduct a consistency review for a "generic existing quarry site" at the time it reviews the associated water resources project, and will render a conclusive coastal consistency determination which will identify alternative measures (reflected as stipulations) necessary to ensure that the generic existing quarry site and project are consistent to the maximum extent practicable with the ACMP.

The Quarry and Environmental portions of the Plans and Specifications (bidding document) will inform the contractor of its responsibilities whether he or she selects an existing quarry site or opens a new quarry and will also advise them of the review requirements agreed to in this LOA. The DGC will be furnished with a copy of the Plans and Specifications.

WORK REQUIRED AFTER THE BID AWARD:

The COE will advise the contractor of the requirements outlined in the Plans and Specifications. The contractor will be required to submit to the COE a Quarry Development Plan including the exact location of the quarry site. Before the COE gives approval to proceed with quarry site development, the appropriate ACMP approval must be obtained.

If the contractor chooses an existing quarry:

Concurrent with its review of the contractor's submittal, the COE will notify DGC in writing of the contractor's quarry site selection and provide a copy of the Quarry Development Plan to DGC. In addition, except for situations described in (a) below, the contractor will provide a Coastal Project Questionnaire to DGC for review. Depending on the site selected, the following requirements apply.

- a) No review by DGC will be required if:
 - 1) a contractor purchases the rock necessary for a project from an operating commercial quarry site; or
 - 2) the quarry site from which the contractor proposes to obtain the necessary rock is located out of state, outside of the coastal zone, or does not directly affect the coastal zone.
- b) DGC will require not more than 15 days to review and comment on the selection and operation if a contractor proposes to use, without modifications, a quarry site, which has previously been found consistent with the ACMP.
- c) DGC will conduct a 30-day consistency review of the proposal, as per 6 AAC 50, if a contractor proposes to use an existing quarry site:
 - 1) with modifications, (e.g. changes to previously approved site boundaries, volumes to be removed, or other terms or conditions); or

- 2) that has not previously undergone a consistency review.

The contractor must submit to DGC all appropriate permit applications that apply to the quarry site.

If the construction contractor chooses a new quarry site (including sites that have been reclaimed):

1. The COE will notify the contractor in writing that the NEPA process has been reopened and that an ACMP consistency review is required for sites located within or directly affecting the coastal zone.
2. For those sites which require coastal consistency review, the COE will provide a copy of the notification letter, the Quarry Development Plan, and the exact location of the proposed quarry to DGC. All appropriate permit applications and a coastal project questionnaire will be submitted to DGC by the contractor.
3. The COE will prepare a NEPA document, either an EA or an EIS, covering the environmental impacts of the contractor's proposed new quarry site. DGC will coordinate the state's review of this document. Compliance with the procedural requirements of NEPA by the COE does not relieve the contractor from responsibility for obtaining necessary permits and/or easements for the proposed quarry.
4. DGC will conduct a 50-day consistency review of the proposal, as per 6 AAC 50. DGC will provide the COE the state's conclusive consistency determination for the new quarry site.

IMPLEMENTATION:

As a result of the procedures outlined in this LOA, the state and COE may agree to alternative measures (reflected as stipulations in the COE approval of the Quarry Development Plan, the conclusive consistency determination, and on State permits, if required) that will apply to the quarry operation. Where State permits are not required, the COE is responsible for monitoring compliance with these stipulations and for enforcing them during operations, as necessary.

If the quarry site stipulations needed to ensure consistency with the ACMP are not met, or if the terms and procedures outlined in the LOA are not followed, the DGC may revoke the consistency determination for the quarry site.

EFFECTIVE DATE:

This agreement takes effect upon the date of the last signature below and will continue in effect until modified or revoked by agreement of both parties, or revoked by either party alone upon two months written notice.

William W. Kakel 25 Jun 90
William W. Kakel Date
Colonel, Corps of Engineers
District Engineer

Robert L. Grogan 6/11
Robert L. Grogan Date
Director
Division of Governmental
Coordination

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LETTER OF AGREEMENT
BETWEEN THE
U.S. FISH AND WILDLIFE SERVICE
AND THE
U.S. ARMY ENGINEER DISTRICT, ALASKA
FOR
QUARRY SITE EVALUATION

This agreement provides guidance and establishes procedures for assessing the environmental impacts associated with the selection and operation of quarry sites for Civil Works Projects.

GENERAL:

The U.S. Army Engineer District, Alaska will allow the construction contractor to select a quarry site to provide specific rock necessary for construction of water resources projects.

WORK REQUIRED DURING THE PROJECT STUDY PHASE:

The National Environmental Policy Act (NEPA) documentation will reflect that the construction contractor will use an existing quarry site. The environmental assessment or impact statement and Coordination Act report will assess the impacts associated with quarry operations of a generic existing site. The Quarry and Environmental portions of the Plans and Specifications (bidding document) will inform the contractor of his responsibilities in case he chooses to open a new site. The U.S. Fish and Wildlife Service (FWS) will be furnished with a copy of the Plans and Specifications.

WORK REQUIRED AFTER THE BID AWARD:

A representative of the Alaska District Environmental Resources Section (PL-ER) will attend the pre-construction conference, advise the contractor of the NEPA procedure, and reiterate the requirements outlined in the Plans and Specifications. The contractor will be required to submit a Quarry Operation Plan (which includes the exact location of the quarry site) for review and government approval.

If the contractor chooses an existing quarry: The PL-ER representative will advise FWS of the selection and will advise the contractor of any permits which may be required or other stipulations associated with the operation. No further NEPA documentation or Fish and Wildlife Coordination Act activities will be required.

If the construction contractor chooses a new quarry site:

1. The PL-ER representative will contact FWS and advise that the NEPA process has been reopened.

2. The PL-ER representative will consult with FWS and other state and Federal environmental agencies, provide the exact location of the proposed quarry, and obtain the agencies' comments. Within 10 working days, the PL-ER representative will meet with the contracting officer's representative (COR) and contractor to advise whether the site is:

- a. acceptable;
- b. acceptable with stipulations;
- c. no decision until further data are gathered; or
- d. unacceptable.

If the site appears to be acceptable, the PL-ER representative will provide the contractor through the COR the mitigation stipulations, if any. If further information is required in order to make a decision, the COR will provide the contractor an estimate of time required for data collection.

3. The Alaska District and FWS will enter into a transfer fund agreement as mandated in the Fish and Wildlife Coordination Act only if further documentation is required. The normal Scope of Work process will be used.

4. Upon completion of the data gathering and documentation, the FWS will submit an amended Coordination Act report with mitigation recommendations to the Alaska District. The Alaska District will give a written response to the recommendations of the FWS. The Alaska District will either write an environmental assessment or supplement an existing impact statement, or write a new impact statement for all new quarry site selection(s).

UNRESOLVED PROBLEMS:

In carrying out the above agreement, every effort will be made to resolve all problems in the following order:

FWS and Alaska District project biologist level.

FWS Field Office Supervisor and Alaska District Planning Branch Chief level.

Assistant Alaska Regional Director for Habitat and Alaska District Engineering Division Chief.

Alaska Regional Director and Alaska District Engineer.

If a solution still cannot be achieved, the problem should be referred to the North Pacific Division and the Alaska Regional Director. Only unresolved problems that threaten the two agencies' abilities to carry out their mandated responsibilities should be referred to the Director of Civil Works, U.S. Army Corps of Engineers, and Director, Fish and Wildlife Service for resolution. Any referrals to the Washington level shall document the specific nature of the problems and efforts at the field level to resolve the disagreements.

William W. Kakel 29 MAR 89
William W. Kakel Date
Colonel, Corps of Engineers
District Engineer

Walter O. Stieglitz 4/21/89
Walter O. Stieglitz Date
Regional Director
U.S. Fish and Wildlife Service

APPENDIX B
QUARRY DEVELOPMENT PLAN
REQUIREMENTS

1.1 Quarry Development Plan. Prior to the development of any quarry, the Contractor shall submit its plan for quarry development and operation to the Contracting Officer for acceptance.

The Quarry Development Plan shall include limits of construction, disposal of quarry waste, necessary access roads and traffic routes, quarry rock stockpile area(s), and other material stockpile area(s) to be used for quarry restoration. Receipt of the plan by the Contracting Officer does not limit the Contractor's responsibility for otherwise complying with the contract requirements. All work shall be contained within the construction limits as designated in the submitted plan. The Contractor shall develop the quarry in a manner that will provide safe and efficient extraction of rock and accommodate the restoration as required. The development plan shall address all requirements of the following subparagraphs.

1.1.1 Show location of access roads, structures, and staging areas, including the upgrading or replacement of any existing access roads.

1.1.2 Include proposed blasting plan.

1.1.3 Show fuel storage locations.

1.1.4 Show location of overburden stockpiles (toe must be above maximum high tide elevation).

1.1.5 Show rock processing areas and waste stockpile areas (toe must be above maximum high tide elevation). Note: Waste stockpiles shall be located to accommodate restoration, if restoration is required.

1.1.6 Show any areas where grubbing material will be buried (toe must be above maximum high tide elevation).

1.1.7 Excavation Plan shall be prepared showing all proposed cut slopes and grades, and the final estimated configuration of the quarry at the end of the work, including areas to be cleared.

1.1.8 Quarry Operation Plan shall be prepared to include information on the following subjects:

(a) Method of rock removal (i.e., drilling and blasting or mechanical excavation).

(b) Method and plan for barge loading, if applicable.

(c) Method, schedule, and plan for burning (if permitted) and disposal of waste.

(d) Method and plan for clearing area before blasting.

1.1.9 Work at the quarry shall comply with the EPA National Pollutant Discharge Elimination System. A storm water pollution prevention plan for the quarry site and notice of intent shall be prepared and submitted to the Contracting Officer per section 01016.

1.2 Work Area Limits. The Contractor shall keep its work areas as small as possible. If the rock quantity obtained from within the area shown in the Quarry Development Plan is insufficient, the Contractor shall request relocation of the boundary at least two weeks in advance of need for additional quarry area.

1.3 Quarry Waste Disposal. No overburden, soil, waste material, debris, vegetation, or fill material (with the exception of a barge loading ramp, if required) shall be placed at an elevation lower than the maximum high tide level or in other waters of the U.S.

All waste areas shall be covered with a minimum of 6 inches of organic overburden if any stockpile material remains for use. The maximum finished slope shall be 2 horizontal to 1 vertical, and the minimum slope shall be 4 horizontal to 1 vertical. Tree roots or limbs shall not be left sticking out of waste area(s). The final grade and appearance of the waste area shall be a smoothly contoured land form, if required.

1.4 Quarry Stockpiling. The Contractor shall identify all stockpile areas on the Quarry Development Plan. The Contractor shall save and protect all overburden material for quarry restoration purposes. Any quantities of overburden lost by negligence shall be replaced from an approved source by the Contractor.

1.5 Cleanup of Quarry Area(s). Unless otherwise specified, upon completion of rock production, all areas which have been utilized by the Contractor shall be cleared of all debris and graded smooth to match existing grade. No waste piles of any type will be permitted to remain, except for areas that are designated as waste areas in the Quarry Development Plan.

1.6 Quarry Restoration Plan. A general quarry restoration plan (for (a) new quarry site(s)) shall be submitted to the Contracting Officer for approval prior to the use of the quarry. A detailed quarry restoration plan shall be submitted for approval once the rock production operations have been completed. Restoration of the quarry shall be accomplished in a manner to produce a natural appearing condition. All disturbed areas, including refuse remaining from other activities prior to this contract, shall be included in the restoration plan. The quarry restoration plan shall be presented on drawings, and show finished elevations and grades of all features. A restoration plan will not be required if the quarry is to remain operational beyond this contract.

G:/en-cw/en-cw-hh/Appendix/Quarry Development Plan

APPENDIX C
NPD TESTING METHODS

NPD Testing Methods

Freezing and Thawing – The test sample, consisting of about 11 pounds of pieces passing the 2 inch sieve and retained on the 1-1/2 inch sieve, will be prepared by jaw crushing or hand chipping. All sharp edges will be chipped off and only pieces approximately cubical in shape will be used. The original dry weight of pieces selected for the freeze-thaw test will be computed by determining moisture content of room dry rock from representative surplus or undersized pieces.

$$\text{Dry weight of pieces selected for freeze-thaw} = \frac{\text{WeightRoomDry}}{1 + \frac{MC}{100}}$$

(MC = moisture content in %)

Specimens will be immersed in water for 24 hours prior to start of test. Sample will then be placed in a pan approximately 15 inches x 9-1/2 inches x 2-1/4 inches and the pan filled from 1/4 inch to 1/2 inch depth of water. Sample in pan will be subjected to freezing and thawing in freeze-thaw apparatus described in CRD-C 20-94, “Standard Test Method for Resistance of Concrete to Rapid Freezing and Thawing” (ASTM C 666-92). Freezing and thawing will be at the rate of 12 cycles per day, each cycle consisting of approximately one hour at $0 \pm 2^\circ\text{F}$ and one hour at $40 \pm 2^\circ\text{F}$. At the end of the test, the samples will be washed, dried, sieved over the 1-1/2 inch sieve and weighed. Tests shall consist of 100 cycles unless other wise specified. The percent loss will be computed based on the original dry weight. Observations of appearance of each piece with comment as to apparent soundness, cracking, etc., will be reported. Photographs of the sample at the end of the test or during the test will be made when significant cracking, flaking, crumbling, or disintegration has taken place.

Wetting & Drying – The test sample will be about 11 pounds of 2 inch to 1-1/2 inch sized particles prepared as specified above for freezing and thawing tests. The test sample will be oven-dried and weighed, then soaked for 24 hours prior to starting tests. Testing will consist of soaking for 3 hours in tap water at approximately 60°F , and drying for 3 hours with an infrared heat lamp so that the surface temperature of rocks will reach 165°F . Upon completion of the test, samples will be oven-dried, screened over 1-1/2 inch sieve and weighed. Percent loss will be based on original dry weight. Significant changes in appearance such as cracking, splitting, etc., will be noted.