

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 37.55' / 059° 37.45' N
 LONGITUDE -151° 18.87' / -151° 18.84' W
 STATION NO. 002
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 22/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 2G1 | 73 m | 5 ft. | | |
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REMARKS: Gravity Core sample dimensions: 3.18" dia. x 5 ft.
 Sample condition - good
 Dark gray mud.
 Sample location: Lat. 059° 37.55' N
 Long. -151° 18.87' W

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 060° 05.36' N
 LONGITUDE -152° 34.13' W
 STATION NO. 003
 LINE NO. J

DAY/MONTH/YEAR
 DATE 22/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 3V1 | 36 m | None | | |
| 3V2 | 40 m | Recovery | | |
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REMARKS:
 Van Veen grab (3V2) - gray muddy gravel with cobble size material. Fauna = barnacles encrusted to rock fragments.
 Weather - cloudy, overcast.

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 060° 05.45' N
 LONGITUDE -152° 34.54' W
 STATION NO. 004
 LINE NO. J

DAY/MONTH/YEAR

DATE 22/6/76

TYPE OF STORAGE (check one)

DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 4V1 | 40 m | Recovery | | |
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REMARKS:

Van Veen grab (4V1) - grayish brown sandy gravel with some rock fragments. Fauna = numerous small (less than 2 cm) pelecypods and sea fans.

Weather - cloudy

SMEAR SLIDE DESCRIPTION

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 5V1 | | Grab | 005 | | | D. Kerr |

Sediment Name: Detrital Silty Sand

5V1 - unwashed smear slide

| ABUNDANCE | TEXTURE | SPECIFIC DATA |
|-----------|--------------|--------------------------------|
| 45 | Sand | |
| 40 | Silt (see 2) | Range .063-.4 Mean .13-.2mm |
| 15 | Clay | |

| COMPOSITION | | |
|-------------|------------------|------------------------|
| A | Quartz | see 4 |
| A | Feldspar | see 5 |
| R | Mica | |
| C | Heavy Mnls. | see 7 |
| | Total Detrital | |
| C | Clay Mnls. | |
| TR | Volc. Glass | colorless, light green |
| | Palagonite | |
| | Chlorite | |
| | Glaucanite | |
| | Pyrite | |
| | Micro Nodules | |
| | Dolo. Rhombs | |
| | Zeolite | |
| | Auth. Carb. | |
| | Rock Frags. | |
| R | Lithic fragments | |
| TR | Foraminifera | are calcareous |
| | Calc. Nannos | |
| C | Unknown | see 6 |
| R | Diatoms | see 3 & 6 |
| TR | Radiolarians | frag? see 1 |
| TR | Sponge Spic. | |
| | Silicoflag. | |
| | | |
| | Fish Remains | |
| | Plant Debris | |

PER-CENT DETAILED MINERALOGY

| | |
|--|---------------------------------------------------------------|
| | (3) chert, meta? quartzite, schist? |
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| | (7) zircon, clinopyroxene, orthopyroxene, garnet? hornblende. |
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REMARKS:



- (1) .04 mm long
- (2) Ships motion too much to determine a mean grain size. It does appear that the silt covers entire size range.
- (4) Clear, few inclusions, sub-rounded to angular.
- (5) Two suites of feldspar; a) highly altered and appear to be K-spar and b) fresh plagioclase. The plagioclase lamellae are either deformed or it is part of zoning feature.
- (6) continued next page.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 19.02' / 059° 18.92' N
 LONGITUDE -153° 41.45' / -153° 42.13' W
 STATION NO. 006
 LINE NO. L

DAY/MONTH/YEAR
 DATE _____
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 6V1 | 26 m | Recovery | | |
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REMARKS:

Van Veen grab (6V1) - dark gray slightly muddy sand, fine

Sample location: Lat. 059° 19.02' N
 Long. -153° 41.45' W

SMEAR SLIDE DESCRIPTION

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 6V1 | | Grab | 006 | | | D. Kerr |

Sediment Name: 6V1 > 62 μ

| ABUNDANCE | TEXTURE | SPECIFIC DATA |
|-------------|------------------|---------------|
| | Sand | |
| | Silt | |
| | Clay | |
| COMPOSITION | | |
| A | Quartz | see 2 |
| A | Feldspar | see 1 |
| TR | Mica | |
| C | Heavy Mnls. | see 3 |
| | Total Detrital | |
| | Clay Mnls. | |
| TR | Volc. Glass | see 4 |
| | Palagonite | |
| | Chlorite | |
| | Glauconite | |
| | Pyrite | |
| | Micro Nodules | |
| | Dolo. Rhombs | |
| TR | Zeolite | |
| TR | Auth. Carb. | |
| | Rock Frags. | |
| C | Lithic fragments | see 2 |
| TR | Foraminifera | calcareous |
| | Calc. Nannos | |
| R | Opagues | see 5 |
| | Diatoms | |
| | Radiolarians | |
| | Sponge Spic. | |
| | Silicoflag. | |
| | Fish Remains | |
| | Plant Debris | |

| PER-CENT | DETAILED MINERALOGY |
|----------|-----------------------------------------------------------------------------------------------------------------------------------|
| | (2) chert, phyllite or schist. |
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| | (3) clinopyroxene, orthopyroxene, (hypersthene: schiller structure), amphibole (hornblende?), epidote? (anomalous birefringence). |
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REMARKS:

- (1) Zoned plagioclase and deformed lamellae. Plagioclase dominates and is angular and fresh. Some K-spar, weathered and rounded. One subhedral zoned plagioclase grain (crystal).
- (2) Clear, angular, some inclusions.
- (4) Angular, colorless, many vesicles.
- (5) Some may be lithic fragments.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 16.22' / 059° 16.24' N
 LONGITUDE -153° 32.12' / -153° 32.12' W
 STATION NO. 007
 LINE NO. 1

DAY/MONTH/YEAR
 DATE _____
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 7V1 | 32 m | Recovery | | |
| 7S1 | 32 m | Recovery | | |
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REMARKS:
 Van Veen grab (7V1) - dark gray silty fine sand, some pumice black fragments, semi-transparent red grains (?).
 Location: Lat. 059° 16.22' N
 Long. -153° 32.12' W

S=Soutar Van Veen grab
 Soutar Van Veen grab (7S1) - dark gray silty fine sand, some pumice fragments, abundant gastropod shells, mollusks, worm tubes.
 Location: Lat. 059° 16.24' N
 Long. -153° 32.12' W

SMEAR SLIDE DESCRIPTION

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 7S1 | | Grab | 007 | | | |

Sediment Name: 7S1 > 62 m

| ABUNDANCE | TEXTURE | SPECIFIC DATA |
|-------------|------------------|---------------|
| | Sand | |
| | Silt | |
| | Clay | |
| COMPOSITION | | |
| A | Quartz | see 3 |
| A | Feldspar | see 2 |
| | Mica | |
| C | Heavy Mnls. | see 2 |
| | Total Detrital | |
| | Clay Mnls. | |
| R | Volc. Glass | see 4 |
| | Palagonite | |
| R | Chlorite | |
| | Glaucanite | |
| | Pyrite | |
| | Micro Nodules | |
| | Dolo. Rhombs | |
| | Zeolite | |
| | Auth. Carb. | |
| | Rock Frags. | |
| C | Lithic fragments | see 1 |
| | Foraminifera | |
| | Calc. Nannos | |
| R | Opagues | |
| TR | Diatoms | |
| | Radiolarians | |
| TR | Sponge Spic. | |
| | Silicoflag. | |
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| | Fish Remains | |
| | Plant Debris | |
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| PER-CENT | DETAILED MINERALOGY |
|----------|----------------------------------------|
| | (1) chert, schist, quartzite granitic? |
| | (2) hornblende, zircon, clinopyroxene |
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- REMARKS:
- (2) Plagioclase: zoned, poly-synthetic twinning, some grains appear pitted.
 - (3) Clear, angular to sub-rounded, few inclusions, some tracks.
 - (4) IR < 1.56, clear, opaque inclusions.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

SMEAR SLIDE DESCRIPTION

19

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 7S1 | | Grab | 007 | | | |

Sediment Name: Mud
7S1 unwashed

| ABUNDANCE | TEXTURE | SPECIFIC DATA |
|-------------|------------------|---------------|
| 10 | Sand | |
| 60 | Silt | |
| 30 | Clay | |
| COMPOSITION | | |
| A | Quartz | see 4 |
| C | Feldspar | see 2 |
| | Mica | |
| C | Heavy Mnls. | see 3 |
| | Total Detrital | |
| | Clay Mnls. | |
| TR | Volc. Glass | see 5 |
| | Palagonite | |
| C | Chlorite | |
| | Glaucanite | |
| | Pyrite | |
| | Micro Nodules | |
| | Dolo. Rhombs | |
| | Zeolite | |
| TR | Auth. Carb. | |
| | Rock Frags. | |
| C | Lithic fragments | see 1 |
| | Foraminifera | |
| TR | Calc. Nannos | |
| R | Opagues | |
| R | Diatoms | |
| | Radiolarians | |
| TR | Sponge Spic. | |
| | Silicoflag. | |
| | | |
| | Fish Remains | |
| | Plant Debris | |
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PER-CENT DETAILED MINERALOGY

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|--|------------------------|
| | (1) chert, quartzite |
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| | (3) zircon, hornblende |
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REMARKS:

- (2) Plagioclase = angular, zoned & polysynthetic twinning. Fresh slightly weathered.
- (4) Two groups: a) angular to sub-rounded, clear, few inclusions and b) sub-rounded, cloudy, many inclusions.
- (5) Clear except for opaque inclusions or coating, IR low < 1.56

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

SMEAR SLIDE DESCRIPTION

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 7S1 | | Grab | 007 | | | |

Sediment Name: 7S1 > 250

| ABUNDANCE | TEXTURE | SPECIFIC DATA |
|-------------|-------------------|---------------|
| | Sand | |
| | Silt | |
| | Clay | |
| COMPOSITION | | |
| A | Quartz | see 3 |
| C | Feldspar | see 5 |
| R | Mica | Biotite |
| R | Heavy Mnls. | see 1 |
| | Total Detrital | |
| | Clay Mnls. | |
| TR | Volc. Glass | |
| | Palagonite | |
| TR | Chlorite | |
| | Glauconite | |
| | Pyrite | |
| | Micro Nodules | |
| | Dolo. Rhombs | |
| | Zeolite | |
| | Auth. Carb. | |
| | Rock Frags. | |
| A | Lithic fragments | see 2 |
| | Foraminifera | |
| | Calc. Nannos | |
| R | Opauques | |
| R | Diatoms | |
| TR | Radiolarians | see 4 |
| | Sponge Spic. | |
| | Silicoflag. | |
| TR | Mollusk? fragment | |
| | Fish Remains | |
| | Plant Debris | |

| PER-CENT | DETAILED MINERALOGY |
|----------|-------------------------------------------------------------|
| | (1) orthopyroxene, amphibole (hornblende), sphene?, zircon. |
| | (2) quartzite, chert, granitic. |
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REMARKS:

- (3) Clear to slightly cloudy, angular to sub-rounded, few inclusions.
- (4) same critter as drawn on 5V1 unwashed remarks: (1)
- (5) Plagioclase, mostly fresh and angular.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 41.60' N
 LONGITUDE -152° 36.10' W
 STATION NO. 009
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 27/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 9V1 | 35 m | Recovery | | |
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REMARKS: Van Veen grab (9V1) - dark silty sand, some sessile organisms, gravel.
 Sea state 5-6.

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 41.6' / 059° 41.25' N
 LONGITUDE -152° 34.5' / -152° 34.9' W
 STATION NO. 010
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 27/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 10V1 | 53 m | None | | |
| 10V2 | 51 m | Recovery | | |
| 10V3 | 51 m | None | | |
| 10V4 | 51 m | Recovery | | |
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REMARKS: 10V2 included in sample designated 10V4
 Van Veen grab (10V2 & 10V4) - muddy sand and gravel
 Location 10V2: Lat. 059° 41.45' N
 Long. -152° 33.90' W
 Location 10V4: Lat. 059° 41.25' N
 Long. -152° 34.90' W
 Sea state 5-6.

USGS STATION LOG

SHIP / LEG S2-76

DAY/MONTH/YEAR

LATITUDE 059° 34.15' N

DATE 27/6/76

LONGITUDE -152° 35.90' W

TYPE OF STORAGE (check one)

STATION NO. 011

LINE NO. _____

DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 11V1 | 64 m | Recovery | | |
| 11V2 | 75 m | Recovery | | |
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REMARKS: Van Veen grab (11V1 & 11V2) - sandy gravel.

Location 11V1: Lat. 059° 34.15' N
Long. -152° 35.90' W

Location 11V2: Lat. 059° 34.50' N
Long. - 152° 35.90' W

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 34.50' N
 LONGITUDE -152° 36.10' W
 STATION NO. 012
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 27/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 12V1 | 63 m | None | | |
| 12V2 | 67 m | Recovery | | |
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REMARKS:

Van Veen grab (12V2) - sandy gravel.

Location 12V1: Lat. 059° 34.50' N
 Long. -152° 36.10' W

Location 12V2: Lat. 059° 34.60' N
 Long. -152° 36.10' W

SMEAR SLIDE DESCRIPTION

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 12V2 | | | 012 | | | |

Sediment Name: Sandy Gravel

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|--------------------|----------|---------------------|
| 44% | Sand | 54% Pebbles | | |
| 1% | Silt | 1% Shell Fragments | | |
| TR | Clay | | | |
| COMPOSITION | | | | |
| 58% | Quartz | | | |
| 15% | Feldspar | | | |
| 1-2% | Mica | | | |
| 12% | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucinite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| 12% | Rock Frags. | | | |
| 1% | Shells & Carb. | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |

REMARKS:

Sorting poor of matrix
 Grains angular
 Modal grain - medium sand 60%
 Range - very fine to coarse
 fine 39%
 coarse 1%

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 25.75' N
 LONGITUDE -152° 50.9' W
 STATION NO. 013
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 28/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 13V1 | 63 m | Recovery | | |
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REMARKS: Van Veen grab (13V1), dark gray medium sand.

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 30.0' N
 LONGITUDE -152° 46.1' W
 STATION NO. 014
 LINE NO. _____

DAY/MONTH/YEAR

DATE 28/6/76

TYPE OF STORAGE (check one)

DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 14V1 | 65 m | Recovery (sm) | | |
| 14S1 | 61 m | Recovery | | |
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REMARKS:

Van Veen grab (14V1), small recovery, dark gray medium sand,
 some shell debris. Location - Lat. 059° 30.0' N
 Long. -152° 46.1' W

Soutar Van Veen (14S1), dark gray medium sand, some shell debris.
 Location - Lat. 059° 30.6' N
 Long. -152° 46.6' W

Sample Condition: drained through sample

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 31.8' N
 LONGITUDE -152° 54.0' W
 STATION NO. 015
 LINE NO. _____

DAY/MONTH/YEAR

DATE 28/6/76

TYPE OF STORAGE (check one)

DRY
 COLD
 FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 15S1 | 45 m | Recovery | | |
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REMARKS:

Soutar Van Veen (15S1), Dark medium sand, minor gravel sizes and shell debris. Sample Condition: very good, no washing.

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 23.2' N
 LONGITUDE -153° 06.0' W
 STATION NO. 016
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 28/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 16S1 | 48 m | Recovery | | |
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REMARKS: Soutar Van Veen (16S1), gray fine sand, muddy.
 Sample condition: very good - no washing

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 16S1 | | | 016 | | | |

Sediment Name: Pebbly Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT DETAILED MINERALOGY |
|-------------|----------------|-------------------|------------------------------|
| 88% | Sand | 10% small pebbles | |
| 1% | Silt | | |
| TR | Clay | | |
| COMPOSITION | | | |
| 45% | Quartz | | |
| 45% | Feldspar | | |
| 1% | Mica | | |
| 3% | Heavy Mnls. | | |
| | Total Detrital | | |
| | Clay Mnls. | | |
| | Volc. Glass | | |
| | Palagonite | | |
| | Chlorite | | |
| | Glaucinite | | |
| | Pyrite | | |
| | Micro Nodules | | |
| | Dolo. Rhombs | | |
| | Zeolite | | |
| | Auth. Carb. | | |
| 6% | Rock Frags. | | |
| | Foraminifera | | |
| | Calc. Nannos | | |
| | Diatoms | | |
| | Radiolarians | | |
| | Sponge Spic. | | |
| | Silicoflag. | | |
| | Fish Remains | | |
| | Plant Debris | | |

REMARKS:

Sand modal size = fine sand
 Sand range = very fine to coarse

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 20.7' N
 LONGITUDE -152° 53.5' W
 STATION NO. 017
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 28/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 17S1 | 74 m | Recovery | | |
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REMARKS: Soutar Van Veen (17S1), dark, clean fine sand.
 Sample condition: very good - no washing

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 058° 56.25' N
 LONGITUDE -152° 23.36' W
 STATION NO. 019
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 29/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 19S1 | 75 m | Recovery | | |
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REMARKS: Soutar Van Veen (19S1) - coarse sand and shell fragments.
 Sample condition: very good - no washing.

USGS STATION LOG

SHIP / LEG S2-76

DAY/MONTH/YEAR

LATITUDE 058° 53.15' / 058° 53.52' N

DATE 29/6/76

LONGITUDE -152° 22.28' / -152° 19.15' W

TYPE OF STORAGE (check one)

STATION NO. 021

| | | |
|--------------------------|-------------------------------------|--------------------------|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
|--------------------------|-------------------------------------|--------------------------|

LINE NO. _____

DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 21D1 | 200 m | Recovery | | |
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REMARKS: Chain Dredge (21D1) - Little fresh SS-SH bedrock, many clasts (SS, SH, Basalt, Plutonics) - varied biota.

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 058° 51.20' N
 LONGITUDE -152° 24.90' W
 STATION NO. 022
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 29/6/76

TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 22S1 | 187 m | None | | |
| 22S2 | 173 m | None | | |
| 22S3 | 154 m | Recovery | | |
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REMARKS: Large Van Veen (22S1 & 22S2) - Equipment failure
 Large Van Veen (22S3) - Boulders, sand, silt, clay
 Location: Lat. 058° 51.20' N
 Long. -152° 24.90' W

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 058° 55.70' N
 LONGITUDE -152° 34.30' W
 STATION NO. 023
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 29/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 23S1 | 167 m | None | | |
| 23S2 | 170 m | Recovery | | |
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REMARKS:

Large Van Veen (23S2) - gray pebbles, sand, silt, clay
 Sample condition: center washed, sides good.
 Location: Lat. 058° 55.70' N
 -152° 34.30' W

~~SAMPLE X-SNEAR SLIDE~~ DESCRIPTION

73

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 23S2 | | Coarse | 023 | | | |

Sediment Name: Sandy Gravel Section _____

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|-----------------------------------|----------|---------------------|
| 2% | Sand | 92% pebbles, granules and cobbles | | |
| TR | Silt | | | |
| TR | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucinite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
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| | Fish Remains | | | |
| | Plant Debris | | | |
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REMARKS:

Clastics 95% cobbles, pebbles, granules and sand.
 5% shell fragments, diatoms, forams, etc...
 Modal size: pebbles
 Sand: modal size, medium grained
 Range: coarse to very fine
 Poorly sorted - conglomeritic
 Roundness: mainly angular to sub-angular - minor constituent sub-rounded.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 058° 58.49' N
 LONGITUDE -152° 31.11' W
 STATION NO. 024
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 29/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 24S1 | 147 m | Recovery | | |
| 24G1 | 147 m | Recovery | | |
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REMARKS: Large Van Veen (24S1) - Grey Silt, sand
 Location: Lat. 058° 58.49' N
 Long. -152° 31.11' W
 Sample Condition: very good - no washing
 Gravity Core (24G1) - trace recovery
 Location: Lat. 058° 58.90' N
 Long. -152° 30.45' W

~~SAMPLE XXXXXXXXXX~~ SMEAR SLIDE DESCRIPTION

70

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 24S1 | | Top | 024 | | | |

Sediment Name: Silty Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------------|----------|---------------------|
| 87% | Sand | 10% Shell fragments | | |
| 2% | Silt | 1% Pebbles | | |
| TR | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glauconite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |

REMARKS:

Medium sand size and fine sand 90%
 Range: coarse to very fine
 Well sorted
 Sub-rounded to angular
 Modal = sub-angular

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 03.20' N
 LONGITUDE -152° 31.20' W
 STATION NO. 025
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 29/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 25S1 | 133 m | Recovery | | |
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REMARKS: Large Van Veen (25S1) - Pebbles, sand, silt, clay

~~SAMPLE X-SMEAR SLIDE~~ **SMEAR SLIDE DESCRIPTION**

80

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 26S1 | | Top | 026 | | | RB |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------|------------|----------|---------------------|
| 100% | Sand | | 0% Pebbles | | |
| 0% | Silt | | | | |
| 0% | Clay | | | | |
| COMPOSITION | | | | | |
| | Quartz | | | | |
| | Feldspar | | | | |
| | Mica | | | | |
| | Heavy Mnls. | | | | |
| | Total Detrital | | | | |
| | Clay Mnls. | | | | |
| | Volc. Glass | | | | |
| | Palagonite | | | | |
| | Chlorite | | | | |
| | Glaucinite | | | | |
| | Pyrite | | | | |
| | Micro Nodules | | | | |
| | Dolo. Rhombs | | | | |
| | Zeolite | | | | |
| | Auth. Carb. | | | | |
| | Rock Frags. | | | | |
| | Foraminifera | | | | |
| | Calc. Nannos | | | | |
| | Diatoms | | | | |
| | Radiolarians | | | | |
| | Sponge Spic. | | | | |
| | Silicoflag. | | | | |
| | Fish Remains | | | | |
| | Plant Debris | | | | |

REMARKS:

Modal grain size: medium sand

Range: coarse to fine
(coarse approx. 3% of total)

Sand: well sorted

Modal = sub-rounded

Range = sub-rounded to angular

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 26.30' N
 LONGITUDE -152° 20.70' W
 STATION NO. 027
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 29/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 27S1 | 74 m | Recovery | | |
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REMARKS:

Soutar Van Veen (27S1) - sample condition, good - drained quickly

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 21.35' N
 LONGITUDE -152° 25.90' W
 STATION NO. 028
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 30/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 28S1 | 78 m | Recovery | | |
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REMARKS:
 Large Van Veen (28S1) - shells, sand, silt
 Sample condition: good - drained at center and edges

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 14.95' N
 LONGITUDE -152° 28.10' W
 STATION NO. 029
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 30/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 29S1 | 90 m | Recovery | | |
| 29S2 | 89 m | Recovery | | |
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REMARKS:
 Large Van Veen (29S1) - partial recovery
 Location, time: S1-0437 Lat. 059° 14.95' N
 Long. -152° 28.10' W

Large Van Veen (29S2) - full recovery
 Location, time: S2-0448 Lat. 059° 14.98' N
 Long. -152° 28.15' W

Sample condition: good - drained a little at center
 Sand, Silt, Shells

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 29S2 | | Bulk | 029 | | | RB |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------|----------|---------------------|
| 100% | Sand | 0% Pebbles | | |
| 0% | Silt | | | |
| 0% | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucinite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
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REMARKS:

Modal grain size: medium grained sand
 Range: medium to fine sand (fine less than 1%)
 Sand: very well sorted
 Modal: sub-angular
 Range: angular to sub-rounded.
 Large phlogopite flakes in coarse grain range.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 17.0' N
 LONGITUDE -152° 21.95' W
 STATION NO. 030
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 30/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 30S1 | 88 m | Recovery | | |
| 30S2 | 91 m | Recovery | | |
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REMARKS:

Large Van Veen (30S1) - partial recovery
 Location, time: S1-0534 Lat. 059° 17.0' N
 Long. -152° 21.95' W

Large Van Veen (30S2) - full recovery
 Location, time: S2-0546 Lat. 059° 16.65' N
 Long. -152° 21.70' W

Sample condition: good - no washing
 Sand, silt, shells (fragments)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 20.25' N
 LONGITUDE -152° 19.10' W
 STATION NO. 031
 LINE NO. _____

DAY/MONTH/YEAR

DATE 30/6/76

TYPE OF STORAGE (check one)

DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 31S1 | 90 m | | | |
| 31S2 | 90 m | ½ Recovery | | |
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REMARKS: Soutar Van Veen (31S2) - fine sand and shell hash
 Sample condition: bad wash
 Sample dimensions: ½ van veen
 No top sample taken

SMEAR SLIDE DESCRIPTION

105

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 31S2 | | Bulk | 031 | | | |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------|----------|---------------------|
| 85% | Sand | | | |
| 0% | Silt | | | |
| 0% | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucanite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |

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REMARKS:
 Modal size: medium sand - 95%
 Range: fine to medium
 Well sorted
 Angular to sub-angular

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 19.45' N
 LONGITUDE -152° 06.13' W
 STATION NO. 032
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 30/6/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 32S1 | 69 m | Recovery | | |
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REMARKS: Soutar Van Veen (32S1) - Silt and sand intermixed with coarse rounded gravel, coral and clams. Much coarse shell fragments.
 Sample condition: washed
 Sample dimensions: ¼ Van Veen
 No top taken.

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 26.35' N
 LONGITUDE -152° 12.49' W
 STATION NO. 033
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 30/6/76

TYPE OF STORAGE (check one)

DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 33S1 | 48 m | No Trip | | |
| 33S2 | 50 m | Recovery | | |
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REMARKS:

Soutar Van Veen (33S2) - sample dimensions: ½ full
 Sample condition: Gravelly sand, much fauna on surface,
 very slow drainage.

~~SAMPLE~~ ~~SMEAR~~ ~~SLIDE~~ DESCRIPTION

(((

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 33S2 | | Top | 033 | | | |

Sediment Name: Pebbly Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------------|----------|---------------------|
| 50% | Sand | | | |
| TR | Silt | 35% Shell Fragments | | |
| TR | Clay | 15% Pebbles | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucanite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: modal size = medium sand
 medium sand - 45%
 fine sand - 35%
 very coarse, coarse and very fine sand - 15%

Sub-rounded to sub-angular

Lithic pebbles, rounded and well sorted.

| DATA CODE LEGEND |
|-----------------------|
| Fossil preservation |
| G = good |
| M = moderate |
| P = poor |
| Abundance code |
| 1% = TR (trace) |
| 1-5% = R (rare) |
| 5-25% = C (common) |
| 25-75% = A (abundant) |
| 75% = D (dominant) |

~~SAMPLE NO. & SLIDE NO.~~ SMEAR SLIDE DESCRIPTION

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| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 33S2 | | Bulk | 033 | | | |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------|---------------------|---------------------|
| 75% | Sand | | 25% Shell fragments | |
| TR | Silt | | | |
| TR | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glauconite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:
 Sand: rounded to sub-angular
 Lithic fragments: rounded
 75% medium sand
 25% fine sand
 Well sorted.

DATA CODE LEGEND
 Fossil preservation
 G = good
 M = moderate
 P = poor
 Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 36.55' N
 LONGITUDE -151° 52.00' W
 STATION NO. 034
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 1/7/76

TYPE OF STORAGE (check one)

DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 34S1 | 27 m | Partial | | |
| 34S2 | 28 m | Partial | | |
| 34S3 | 29 m | Recovery | | |
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REMARKS:

Soutar Van Veen (34S1 and 34S2) - partial recovery, try again
 Soutar Van Veen (34S3) - sample dimensions, ½ grab
 Sample condition, fine sand with few animals, slight draining
 Location: Lat. 059° 36.55' N
 Long. -151° 52.00' W

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~~SAMPLE SMEAR SLIDE~~ **SMEAR SLIDE DESCRIPTION**

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 34S3 | | Bulk | 034 | | | |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------------|----------|---------------------|
| 90% | Sand | 10% Shell Fragments | | |
| 0% | Silt | | | |
| 0% | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucinite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |

REMARKS:

Sand: medium sand = 50%
 fine sand = 50%

Well sorted sand.

Sub-angular to sub-rounded.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

~~SAMPLE X SHEAR SLIDE~~ SHEAR SLIDE DESCRIPTION

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| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 34S3 | | Top | 034 | | | |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|-------------------------------|----------|---------------------|
| 80% | Sand | 20% Shells (mostly forams) | | |
| 0% | Silt | | | |
| 0% | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucanite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: fine - 80%
 very fine - 10%
 medium - 10%

Well sorted.

Sub-angular to rounded, lithic fragments, rounded.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 37.35' N
 LONGITUDE -152° 14.30' W
 STATION NO. 035
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 1/7/76

TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 35S1 | 50 m | Recovery | | |
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REMARKS: Soutar Van Veen (35S1) - Gravel, clams, brittle stars

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 035 S1 | | Bulk | 035 | | | |

Sediment Name: Sandy Gravel

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------------|----------|---------------------|
| 24% | Sand | 10% Shell Fragments | | |
| TR | Silt | 65% Pebbles | | |
| TR | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucinite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: 30% medium
 30% fine
 30% very fine
 10% coarse and very coarse

Moderately sorted

Lithic fragments well rounded - pebbles.

Sand: sub-angular to sub-rounded.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 41.50' N
 LONGITUDE -152° 13.00' W
 STATION NO. 036
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 1/7/76

TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 36S1 | 45 m | None | | |
| 36S2 | 46 m | Recovery | | |
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REMARKS:
 Soutar Van Veen (36S2) - Shelly gravel
 Location: Lat. 059° 41.50' N
 Long. -152° 13.00' W

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 36S2 | | Bulk | 036 | | | |

Sediment Name: Pebbly Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------|----------|---------------------|
| 54% | Sand | 25% Shells | | |
| TR | Silt | 25% Pebbles | | |
| TR | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucinite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Modal size: medium sand - 90%

Range: very fine to coarse
 7% fine sand
 3% others

Well sorted

Sub-round to sub-angular

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 45.90' / 059° 46.30' N
 LONGITUDE -151° 13.80' / -151° 13.00' W
 STATION NO. 037
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 1/7/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 37S1 | 56 m | Recovery | | |
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REMARKS:

Soutar Van Veen (37S1) - Shelly gravel
 Sample condition: poor - jaws held open by rock, drained rapidly.

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 44.65' N
 LONGITUDE -151° 59.05' W
 STATION NO. 038
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 1/7/76

TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 38S1 | 18 m | Recovery | | |
| 38S2 | 18 m | Recovery | | |
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REMARKS:
 Soutar Van Veen (38S1) - Rocks up to 15 cm, all rounded
 Soutar Van Veen (38S2) - One single rock, very big, 20 X 12 X 8 cm, rounded

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 40.75' N
 LONGITUDE -151° 57.15' W
 STATION NO. 039
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 1/7/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 39S1 | 35 m | Recovery | | |
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REMARKS: Soutar Van Veen (39S1) - gravel and abundant fauna -
 urchins, crabs, clams, etc..
 Sample condition: washed

~~SAMPLE SHEET~~ **SLIDE DESCRIPTION**

130

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 39S1 | | Bulk | 039 | | | |

Sediment Name: Gravel

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|--------------------|----------|---------------------|
| .75% | Sand | 4% Shell Fragments | | |
| <.25% | Silt | 95% Gravel | | |
| 0% | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucinite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: 90% fine sand
 Pebbles and Cobbles are well rounded.

| DATA CODE LEGEND |
|-----------------------|
| Fossil preservation |
| G = good |
| M = moderate |
| P = poor |
| Abundance code |
| 1% = TR (trace) |
| 1-5% = R (rare) |
| 5-25% = C (common) |
| 25-75% = A (abundant) |
| 75% = D (dominant) |

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE NO RECORD
 LONGITUDE _____
 STATION NO. 040
 LINE NO. _____

DAY/MONTH/YEAR

DATE _____

TYPE OF STORAGE (check one)

DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| NO RECORD | | | | |
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REMARKS:

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 41S1 | | Top | 041 | | | |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------------|----------|---------------------|
| 90% | Sand | 10% Shell Fragments | | |
| 0% | Silt | | | |
| 0% | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucanite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: 85% medium grained
 15% fine grained

Well sorted
 sub-rounded to sub-angular
 Lots of forams.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 36.20' N
 LONGITUDE -151° 45.60' W
 STATION NO. 042
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 1/7/76

TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 42S1 | 30 m | Recovery | | |
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REMARKS: Soutar Van Veen (42S1) - silty fine sand
 Sample condition: badly washed center, edge good

SAMPLE ~~SMEAR~~ ~~SLIDE~~ DESCRIPTION

139

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 42S1 | | Bulk | 042 | | | |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|-------------------------------------|----------|---------------------|
| 99% | Sand | < 1% Shell Fragments and Pebbles | | |
| TR | Silt | | | |
| TR | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucanite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |

REMARKS:

Sand: fine sand - 50%
 very fine sand - 48%
 medium sand - 2%

Well sorted sand

Angular to sub-angular

| DATA CODE LEGEND |
|-----------------------|
| Fossil preservation |
| G = good |
| M = moderate |
| P = poor |
| Abundance code |
| 1% = TR (trace) |
| 1-5% = R (rare) |
| 5-25% = C (common) |
| 25-75% = A (abundant) |
| 75% = D (dominant) |

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 42S2 | | Top | 042 | | | |

Sediment Name: Pebbly Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|--------------------|----------|---------------------|
| 70% | Sand | | | |
| 0% | Silt | 5% Shell Fragments | | |
| 0% | Clay | 25% Pebbles | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glauconite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: medium grain size - 90%
 fine grain size - 7%
 others - 3%

Well sorted sand.

Sand is sub-angular to sub-rounded.

Pebbles are rounded.

Sand size lithic fragments more rounded than mineral grains.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 36.63' N
 LONGITUDE -151° 22.07' W
 STATION NO. 043
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 1/7/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 43S1 | 52 m | Recovery | | |
| | | | | |
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REMARKS:
 Soutar Van Veen (43S1) - dark silty mud, clams
 Sample condition: very good - no washing

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 43S1 | | Bulk | 043 | | | |

Sediment Name: Silty Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|--------------------|----------|---------------------|
| 92% | Sand | | | |
| 4% | Silt | 1% Shell Fragments | | |
| 2% | Clay | 0% Pebbles | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucinite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: very fine sand - 85%
 fine sand - 15%

moderately sorted

sand is angular to sub-angular

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 43S1 | | Top | 043 | | | |

Sediment Name: Silty Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------|--------------------|----------|---------------------|
| 96.5% | Sand | | TR Shell Fragments | | |
| 3.0% | Silt | | | | |
| .5% | Clay | | | | |
| COMPOSITION | | | | | |
| | Quartz | | | | |
| | Feldspar | | | | |
| | Mica | | | | |
| | Heavy Mnls. | | | | |
| | Total Detrital | | | | |
| | Clay Mnls. | | | | |
| | Volc. Glass | | | | |
| | Palagonite | | | | |
| | Chlorite | | | | |
| | Glauconite | | | | |
| | Pyrite | | | | |
| | Micro Nodules | | | | |
| | Dolo. Rhombs | | | | |
| | Zeolite | | | | |
| | Auth. Carb. | | | | |
| | Rock Frags. | | | | |
| | | | | | |
| | Foraminifera | | | | |
| | Calc. Nannos | | | | |
| | | | | | |
| | Diatoms | | | | |
| | Radiolarians | | | | |
| | Sponge Spic. | | | | |
| | Silicoflag. | | | | |
| | | | | | |
| | Fish Remains | | | | |
| | Plant Debris | | | | |
| | | | | | |

REMARKS:

Sand: very fine sand 75%
 fine sand 20%
 medium sand 5%

Well sorted sand

Sand is angular to sub-angular

| DATA CODE LEGEND |
|-----------------------|
| Fossil preservation |
| G = good |
| M = moderate |
| P = poor |
| Abundance code |
| 1% = TR (trace) |
| 1-5% = R (rare) |
| 5-25% = C (common) |
| 25-75% = A (abundant) |
| 75% = D (dominant) |

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 35.25' N
 LONGITUDE -152° 29.90' W
 STATION NO. 044
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 3/7/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 44S1 | 67 m | None | | |
| 44S2 | 62 m | Recovery | | |
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REMARKS:

Soutar Van Veen (44S2) - clean coarse sand, shell fragments
 Sample condition: very good - no washing
 Three containers - core, top and bulk
 Location: Lat. 059° 35.25' N
 Long. -152° 29.90' W

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 44S2 | | Bulk | 044 | | | |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------------|----------|---------------------|
| 97.5% | Sand | <2% Shell Fragments | | |
| none | Silt | 1% Pebbles | | |
| none | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glauconite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: medium grain size 80%
fine grain size 18%
others 2%

Well sorted

Sub-angular to sub-rounded

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 44S2 | | Top | 044 | | | |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|--------------------|----------|---------------------|
| 98% | Sand | 1% Shell Fragments | | |
| 0% | Silt | 1% Pebbles | | |
| 0% | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucanite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: medium grain size 79%
 fine grain size 20%
 coarse and very coarse 1%

Well sorted

Sub-rounded to sub-angular

Lithic fragments are well rounded

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 34.80' N
 LONGITUDE -152° 36.10' W
 STATION NO. 045
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 3/7/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 45S1 | | Recovery | | |
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REMARKS:

Soutar Van Veen (45S1) - meddy sand and pebbles - abundant fauna
 Location: approximately 1½ miles on bearing 260° from station
 44 (start).

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USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 44.4' N
 LONGITUDE -152° 32.05' W
 STATION NO. 046
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 3/7/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 46S1 | 73 m | Sm. Recovery | | |
| 46S2 | 70 m | Sm. Recovery | | |
| | | | | |
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REMARKS:
 Soutar Van Veen (46S1 and 46S2) - rocks and sand

SAMPLE SHEAR SLIDE DESCRIPTION

157

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 46S1 | | Bulk | 046 | | | |

Sediment Name: Sandy Gravel

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|--------------------|----------|---------------------|
| 24% | Sand | | | |
| 0% | Silt | 1% Shell Fragments | | |
| 0% | Clay | 75% Pebbles | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnl. | | | |
| | Total Detrital | | | |
| | Clay Mnl. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucinite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: medium grain size 85%
 fine grain size 14%
 other sand sizes 1%

Well sorted

Rounded to well rounded, average sub-rounded

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 55.49' N
 LONGITUDE -152° 28.6' W
 STATION NO. 047
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 3/7/76

TYPE OF STORAGE (check one)

DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 47S1 | 25 m | Sm. Recovery | | |
| 47S2 | 25 m | Sm. Recovery | | |
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REMARKS:

UCLA Van Veen (47S1 and 47S2) - Gravelly Sand, small recovery

SAMPLE ~~SMEAR SLIDE~~ DESCRIPTION

158

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 47S1 | | Bulk | 047 | | | |

Sediment Name: Sandy Gravel

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|--------------------|----------|---------------------|
| 20% | Sand | | | |
| 0% | Silt | 5% Shell Fragments | | |
| 0% | Clay | 75% Pebbles | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucanite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: medium grain size 50%
 coarse grain size 25%
 fine grain size 18%
 very fine grain size 5%
 very coarse grain size 2%

Moderate to poorly sorted.
 Large lithic pebbles and very coarse sand - well rounded.
 Sand is sub-angular to sub-rounded.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76

DAY/MONTH/YEAR

LATITUDE 060° 00.50' N

DATE _____

LONGITUDE -152° 24.6 ' W (uncertain)

TYPE OF STORAGE (check one)

STATION NO. 048

LINE NO. _____

DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 48S1 | 45 m | Recovery | | |
| | | | | |
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REMARKS:

Soutar Van Veen (48S1) - Sandy clay - top 2-4 cm, underlain by clayey sand with gravel.
 Sample condition: 2" opening in jaws - washed sample
 Weather - clear and calm

| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 48S1 | | Top | 048 | | | |

Sediment Name: Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------|-------------|----------|---------------------|
| 99% | Sand | | < 1% forams | | |
| < 1% | Silt | | 0% pebbles | | |
| < .5% | Clay | | | | |
| COMPOSITION | | | | | |
| | Quartz | | | | |
| | Feldspar | | | | |
| | Mica | | | | |
| | Heavy Mnls. | | | | |
| | Total Detrital | | | | |
| | Clay Mnls. | | | | |
| | Volc. Glass | | | | |
| | Palagonite | | | | |
| | Chlorite | | | | |
| | Glaucanite | | | | |
| | Pyrite | | | | |
| | Micro Nodules | | | | |
| | Dolo. Rhombs | | | | |
| | Zeolite | | | | |
| | Auth. Carb. | | | | |
| | Rock Frags. | | | | |
| | | | | | |
| | Foraminifera | | | | |
| | Calc. Nannos | | | | |
| | | | | | |
| | Diatoms | | | | |
| | Radiolarians | | | | |
| | Sponge Spic. | | | | |
| | Silicoflag. | | | | |
| | | | | | |
| | Fish Remains | | | | |
| | Plant Debris | | | | |
| | | | | | |

REMARKS:

Sand: fine grain size 90%
 very fine grain size 7%
 medium, coarse & very coarse 3%

Well sorted.

Sub-rounded to angular, sub-angular is average.

DATA CODE LEGEND

Fossil preservation
 G = good
 M = moderate
 P = poor

Abundance code
 1% = TR (trace)
 1-5% = R (rare)
 5-25% = C (common)
 25-75% = A (abundant)
 75% = D (dominant)

~~SAMPLE SHEET~~ **SWEAR SLIDE DESCRIPTION**

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| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 48S1 | | Bulk | 048 | | | |

Sediment Name: Pebbly Sand

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|--------------------|----------|---------------------|
| 71% | Sand | 0% Shell Fragments | | |
| 3% | Silt | 25% Pebbles | | |
| 1% | Clay | | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glauconite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: fine grain 80%
medium grain 5%
very fine 10%
very coarse and coarse 5%

Well sorted sand.

Angular to sub-rounded, sub-angular is average.

DATA CODE LEGEND

Fossil preservation
G = good
M = moderate
P = poor

Abundance code
1% = TR (trace)
1-5% = R (rare)
5-25% = C (common)
25-75% = A (abundant)
75% = D (dominant)

USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 56.00' N
 LONGITUDE -152° 03.90' W
 STATION NO. 049
 LINE NO. _____

DAY/MONTH/YEAR _____
 DATE _____
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 49S1 | 47 m | Recovery | | |
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REMARKS:
 Soutar Van Veen (49S1) - shelly gravel, slightly washed
 Weather - clear and calm

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USGS STATION LOG

SHIP / LEG S2-76
 LATITUDE 059° 52.50' N
 LONGITUDE -151° 54.50' W
 STATION NO. 050
 LINE NO. _____

DAY/MONTH/YEAR
 DATE 6/7/76
 TYPE OF STORAGE (check one)
 DRY COLD FROZEN

| SAMPLE NO. TYPE & ID. | UNCORRECTED DEPTH (M) | CORE LENGTH | BASIC LITHOLOGY | AGE OF BOTTOM |
|--------------------------|--------------------------|----------------|--------------------|------------------|
| 50S1 | 32 m | Recovery | | |
| 50S2 | 32 m | Recovery | | |
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REMARKS: Soutar Van Veen (50S1 and 50S2) - Little recovery both times, bagged 50S1, sample severely washed. Sandy gravel.

~~SAMPLE X SHEAR SLIDE~~ **SHEAR SLIDE DESCRIPTION**

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| LOCATOR | SAMPLE NO. | SEC. | INTERVAL | STATION NO. | Dom. LITH. | Minor LITH. | OBSERVER |
|---------|------------|------|----------|-------------|------------|-------------|----------|
| S2-76 | 50S1 | | Bulk | 050 | | | |

Sediment Name: Sandy Gravel

| ABUNDANCE | TEXTURE | SPECIFIC DATA | PER-CENT | DETAILED MINERALOGY |
|-------------|----------------|---------------------|----------|---------------------|
| 15% | Sand | | | |
| 0% | Silt | 10% Shell Fragments | | |
| 0% | Clay | 70% Pebbles | | |
| COMPOSITION | | | | |
| | Quartz | | | |
| | Feldspar | | | |
| | Mica | | | |
| | Heavy Mnls. | | | |
| | Total Detrital | | | |
| | Clay Mnls. | | | |
| | Volc. Glass | | | |
| | Palagonite | | | |
| | Chlorite | | | |
| | Glaucinite | | | |
| | Pyrite | | | |
| | Micro Nodules | | | |
| | Dolo. Rhombs | | | |
| | Zeolite | | | |
| | Auth. Carb. | | | |
| | Rock Frags. | | | |
| | | | | |
| | Foraminifera | | | |
| | Calc. Nannos | | | |
| | | | | |
| | Diatoms | | | |
| | Radiolarians | | | |
| | Sponge Spic. | | | |
| | Silicoflag. | | | |
| | | | | |
| | Fish Remains | | | |
| | Plant Debris | | | |
| | | | | |

REMARKS:

Sand: medium grains 55%
 coarse and very coarse 30%
 fine and very fine 15%

Sand: sub-angular to rounded,
 average is rounded.

Moderately sorted.

| DATA CODE LEGEND |
|-----------------------|
| Fossil preservation |
| G = good |
| M = moderate |
| P = poor |
| Abundance code |
| 1% = TR (trace) |
| 1-5% = R (rare) |
| 5-25% = C (common) |
| 25-75% = A (abundant) |
| 75% = D (dominant) |

