

EX033

HEAVY MINERALS

016119

2CMAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 591100E -----
 -NORTHNG 919600N
 NTS- 105K06 G

DATE SAMPLED: 15MAR82
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0003 *
 * * *

SAMPLE 81G0003 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 3.29 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 450 | 0.8 | 29 | 46 | 0.6 | 14 | 1 | 290 | 92 | 1.70 | 555 | 6 | 0.4 | | 10 | 11.30 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 5.26 |
| -60 HP TOT | | 0.1 | 15 | 90 | 0.1 | 15 | 2 | | | 4.48 | 2700 | 4 | 0.2 | | | 31.45 |
| -35+60 IP OX | | 0.1 | 8 | 34 | 0.1 | 4 | 1 | | | 1.30 | 95 | 10 | | | | |
| -35+60 IP TOT | | 0.2 | 18 | 195 | 0.1 | 10 | 2 | | | 5.65 | 600 | 24 | | | | 1.90 |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= NOT RECORDED
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NOT RECORDED WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= NOT RECORDED

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.9M | POOR | HIGH | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 6.0KM**2

NTS-105K06

 * * *
 * SAMPLE * 81G0003 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 06MAY81
-EASTING 594400E SAMPLERS : NP/CH
-NORTHNG 920100N G
NTS- 105K06

* * *
* SAMPLE * 81G0004 *
* * *

SAMPLE 81G0004 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT.

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= SLIGHT ORGANIC SLIME
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.9M
MODERATE(10-50%) 2 X SEDIMENT SORTING = GOOD
LITTLE(<10%) 1 X X X DECAYED ORGANICS = LOW
NONE 0 X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT=
BASIN AREA = 7.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0004 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
----- -EASTING 597700E -----
-NORTHNG 917200N
NTS- 105K06

DATE SAMPLED: 15MAR82
SAMPLERS : NM/

* * *
* SAMPLE * 81G0005 *
* * *

SAMPLE 81G0005 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 3.70 |
| -60 HN TOT | 2000 | 1.6 | 104 | 52 | 0.4 | 14 | 6 | 190 | 180 | 2.70 | 660 | 4 | 0.8 | < | 10 | 3.81 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .68 |
| -60 HP TOT | | 0.1 | 42 | 87 | 0.1 | 24 | 3 | | | 4.68 | 3700 | 12 | 1 | | | 9.68 |
| -35+60 IP OX | | 0.1 | 6 | 20 | 0.1 | 4 | 1 | | | .70 | 145 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 85 | 0.1 | 9 | 4 | | | 2.70 | 330 | 15 | | | | .38 |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= NOT RECORDE SEDIMENT COLOR= BROWN GREY

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= NOT RECORDED

PRECIPITATE OR STAIN= NOT RECORDED
CONTAMINATION = POSSIBLE EXOTIC TILL

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | | X | X | X | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= NOT RECORDED
----- WEIGHT=
BASIN AREA = 10.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0005 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 06MAY81
-EASTING 598500E -SAMPLERS : NM/
-NORTHNG 917400N G
NTS- 105K06

* * *
* SAMPLE * 81G0006 *
* * *

SAMPLE 81G0006 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT.

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
DEPTH= 0.3M PH = SUSPENDED MATTER= NONE WATER COLOR= NOT RECORDE SEDIMENT COLOR= BROWN
SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= NOT RECORDED
PRECIPITATE OR STAIN= NOT RECORDED CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M SEDIMENT SORTING = MODERATE DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER = GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE WEIGHT= BASIN AREA = 19.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0006 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 06MAY81
 ----- -EASTING 600500E ----- SAMPLERS : CH/NP
 -NORTHNG 920300N G
 NTS- 105K06

 * * *
 * SAMPLE * 81G0008 *
 * * *

SAMPLE 81G0008 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 5.02 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 2300 | 0.2 | 92 | 84 | 0.8 | 28 | 4 | 300 | 640 | 3.90 | 445 | 6 | 1.6 | < | 10 | 8.40 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 14.63 |
| -60 HP TOT | | 0.1 | 29 | 115 | 0.1 | 20 | 2 | | | 5.55 | 2960 | 14 | 1.2 | | | 62.14 |
| -35+60 IP OX | | 0.1 | 13 | 44 | 0.2 | 15 | 1 | | | 1.60 | 240 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 39 | 390 | 0.8 | 65 | 5 | | | 14.00 | 995 | 50 | | | | 18.50 |

STREAM WIDTH= 0.9M WATER LEVEL= NOT REC'D FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= NOT RECORDED
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= NOT RECORDED STREAM TYPE= NOT RECORDED SAMPLE POSITION= NOT RECORDED

PRECIPITATE OR STAIN= NONE EXOTIC TILL
 CONTAMINATION = PROBABLE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|------------------------|------------|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|--|--|
| ----- MODERATE(10-50%) | 2 | | X | X | | | | | | | | | | | | | |
| LITTLE(<10%) | 1 | X | X | X | | | | X | | | | | | | | | |
| NONE | 0 | X | X | X | | | | X | | | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
 SEDIMENT SORTING = GOOD
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 2.0KM**2

NTS-105K06

 * * *
 * SAMPLE * 81G0008 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 06MAY81
----- -EASTING 601100E -----
-NORTHNG 918900N G
NTS- 105K06

SAMPLERS : NM/

* * *
* SAMPLE * 81G0009 *
* * *

SAMPLE 81G0009 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .56 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | <50000 | 0.2 | 14 | 154 | 0.2 | 100 | 2 | 140 | 364 | 2.10 | 275 | 24 | 10.4 | < | 10 | 11.02 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.97 |
| -60 HP TOT | | 0.1 | 47 | 145 | 0.3 | 29 | 2 | | | 4.80 | 3650 | 23 | 3 | | | 35.51 |
| -35+60 IP OX | | 0.1 | 23 | 52 | 0.3 | 16 | 1 | | | 2.10 | 485 | 15 | | | | |
| -35+60 IP TOT | | 0.1 | 54 | 392 | 0.7 | 77 | 5 | | | 11.00 | 1075 | 59 | | | | 2.97 |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
----- DEPTH= 1.5M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= ORANGE BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= NOT RECORDED SAMPLE POSITION= NOT RECORDED

PRECIPITATE OR STAIN= VARIABLE MODERATE FE HYDROXIDES/RUST
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | VERY POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 13.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0009 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 604100E -----
 -NORTHNG 918800N
 NTS- 105K07

DATE SAMPLED: 06MAY81
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0010 *
 * * *

SAMPLE 81G0010 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 6.67 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 15400 | 0.4 | 58 | 230 | 0.2 | 150 | 6 | 85 | 104 | 4.65 | 645 | 10 | 0.8 | | 380 | 3.57 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.54 |
| -60 HP TOT | | 0.1 | 10 | 105 | 0.1 | 8 | 2 | | | 4.15 | 3590 | 5 | 0.4 | | | 18.83 |
| -35+60 IP 0X | | 0.1 | 6 | 86 | 0.1 | 12 | 1 | | | 2.20 | 670 | 6 | | | | |
| -35+60 IP TOT | | 0.2 | 12 | 252 | 0.2 | 38 | 4 | | | 8.10 | 1010 | 30 | | | | 1.13 |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.0M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= NOT RECORDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NOT RECORDED
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | | X | X | X | | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | | | X | X | X | X | | | X | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 3.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0010 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15MAR82
 ----- -EASTING 603800E -----
 -NORTHNG 918600N
 NTS- 105K07 G

 * * *
 * SAMPLE * 81G0011 *
 * * *

SAMPLE 81G0011 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.19 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 700 | 0.2 | 36 | 90 | 0.2 | 22 | 2 | 100 | 104 | 2.45 | 350 | 10 | 0.4 | < 10 | | 48.60 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 11.33 |
| -60 HP TOT | | 0.1 | 17 | 72 | 0.1 | 12 | 1 | | | 3.03 | 2900 | 9 | 0.2 | | | 314.95 |
| -35+60 IP OX | | 0.1 | 12 | 59 | 0.1 | 12 | 1 | | | 1.50 | 585 | 30 | | | | |
| -35+60 IP TOT | | 0.1 | 70 | 235 | 0.1 | 52 | 1 | | | 9.50 | 1100 | 57 | | | | 6.35 |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.0M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= NOT RECORDED

PRECIPITATE OR STAIN= NOT RECORDED
 CONTAMINATION = POSSIBLE EXOTIC TILL

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | X | X | | | | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | | X | X | X | | X | X | | | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | | X | X | X | | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 6.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0011 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15MAR82
----- -EASTING 603400E -----
-NORTHNG 918800N G
NTS- 105K06

DATE SAMPLED: 15MAR82
SAMPLERS : NM/

* * *
* SAMPLE * 81G0012 *
* * *

SAMPLE 81G0012 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 21.10 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 3500 | 0.2 | 50 | 92 | 0.6 | 32 | 2 | 150 | 220 | 2.60 | 500 | 4 | 0.8 | < 10 | | 7.99 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 9.09 |
| -60 HP TOT | | 0.1 | 5 | 85 | 0.1 | 11 | 1 | | | 3.20 | 2330 | 2 | 0.1 | | | 66.86 |
| -35+60 IP OX | | 0.2 | 15 | 75 | 0.2 | 10 | 1 | | | 2.00 | 435 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 45 | 340 | 0.1 | 37 | 2 | | | 9.40 | 935 | 29 | | | | 3.65 |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH=
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= NOT RECORDED SAMPLE POSITION= NOT RECORDED
 PRECIPITATE OR STAIN= NOT RECORDED
 CONTAMINATION = NOT RECORDED

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = POOR
 LITTLE(<10%) 1 X X X X DECAYED ORGANICS = HIGH
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 2.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0012 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C8 PROJECT
 ----- -EASTING 603800E -----
 -NORTHNG 917000N
 NTS- 105K07 G

DATE SAMPLED: 06MAY81
 SAMPLERS : CH/ND

 * * *
 * SAMPLE * 81G0013 *
 * * *

SAMPLE 81G0013 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .79 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 800 | 0.6 | 70 | 108 | 0.2 | 30 | 2 | 140 | 344 | 3.45 | 490 | 114 | 1.6 | < 10 | | 21.42 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 16.84 |
| -60 HP TOT | | 0.1 | 38 | 130 | 0.1 | 25 | 2 | | | 5.00 | 2740 | 30 | 1 | | | 113.56 |
| -35+60 IP OX | | 0.1 | 11 | 49 | 0.1 | 13 | 1 | | | 1.25 | 360 | 14 | | | | |
| -35+60 IP TOT | | 0.1 | 51 | 405 | 0.2 | 80 | 2 | | | 13.00 | 1100 | 170 | | | | 13.94 |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 1.5M
 ----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = GOOD
 LITTLE(<10%) 1 X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 3.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0013 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 06MAY81
----- -EASTING 603000E -SAMPLERS : CH/NP
-NORTHNG 921400N G
NTS- 105K06

* * *
* SAMPLE * 81G0014 *
* * *

SAMPLE 81G0014 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 4.28 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | 1.6 | 60 | 240 | 2 | 1600 | 2 | NSS | NSS | 7.50 | 350 | 44 | NSS | | 5830 | 1.32 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 9.30 |
| -60 HP TOT | | 0.6 | 50 | 1250 | 5.2 | 500 | 37 | | | 32.00 | 1090 | 120 | 25 | | | 5.62 |
| -35+60 IP OX | | 0.1 | 1 | 360 | 0.2 | 65 | 7 | | | 4.90 | 740 | 11 | | | | |
| -35+60 IP TOT | | 0.4 | 10 | 1000 | 2.8 | 210 | 24 | | | 16.00 | 1100 | 57 | | | | 13.45 |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.3M
 ----- MODERATE(10-50%) 2 X SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 X X X X X
 NONE 0 X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 8.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0014 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 15MAR82
-EASTING 605000E -NORTHNG 922700N NTS- 105K07

SAMPLERS : NP/DC

* * *
* SAMPLE * 81G0015 *
* * *

SAMPLE 81G0015 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT.

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.1M PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= NOT RECORDED

PRECIPITATE OR STAIN= NONE CONTAMINATION = PROBABLE EXOTIC TILL

Table with columns: SEDIMENT, LOTS(>50%), MODERATE(10-50%), LITTLE(<10%), NONE, BOULDERS, COBBLES, PEBBLES, GRANULES, SAND, SILT, CLAY, MAX. BOULDER SIZE, SEDIMENT SORTING, DECAYED ORGANICS, GJ-SORTING PARAMETER, GJ-COARSENESS PARAMETER.

SAMPLE STATUS= ROUTINE SAMPLE WEIGHT= BASIN AREA = 5.0KM**2

NTS-105K07

* * *
* SAMPLE * 81G0015 *
* * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 595000E -----
 -NORTHNG 920000N
 NTS- 105K06 G

DATE SAMPLED: 15MAR82
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0016 *
 * * *

SAMPLE 81G0016 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.44 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 1100 | 0.2 | 20 | 70 | 0.2 | 22 | 4 | 440 | 48 | 3.60 | 860 | 4 | 3.2 | < | 10 | 7.68 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 5.94 |
| -60 HP TOT | | 0.1 | 16 | 125 | 0.2 | 23 | 2 | | | 7.00 | 6750 | 22 | 2 | | | 14.94 |
| -35+60 IP OX | | 0.1 | 12 | 57 | 0.2 | 15 | 1 | | | 1.80 | 415 | 10 | | | | |
| -35+60 IP TOT | | 0.1 | 26 | 365 | 0.5 | 53 | 3 | | | 10.00 | 1100 | 53 | | | | 9.67 |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= NOT RECORDED SAMPLE POSITION= NOT RECORDED

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE ROAD

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | | X | X | X | | | | | | | | | SEDIMENT SORTING = GOOD |
| | LITTLE(<10%) | 1 | | | | X | X | X | | | | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 14.0KM**2

NTS-105K06

 * * *
 * SAMPLE * 81G0016 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 07MAY81
 ----- -EASTING 596600E -----
 -NORTHNG 922400N
 NTS- 105K06 G

DATE SAMPLED: 07MAY81
 SAMPLERS : NP/DC

 * * *
 * SAMPLE * 81G0017 *
 * * *

SAMPLE 81G0017 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.47 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 1100 | 1.4 | 20 | 70 | 0.4 | 30 | 6 | 480 | 100 | 3.85 | 1040 | 4 | 0.4 | < | 10 | 3.96 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.35 |
| -60 HP TOT | | 0.1 | 50 | 200 | 0.9 | 56 | 2 | | | 12.20 | >10000 | 36 | 6.4 | | | 8.60 |
| -35+60 IP OX | | 0.3 | 5 | 47 | 0.1 | 14 | 1 | | | 1.70 | 560 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 26 | 385 | 0.6 | 83 | 5 | | | 11.00 | 1250 | 79 | | | | 4.58 |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= MODERATE ORGANIC SLIME
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|------------------|------------|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|---|
| MODERATE(10-50%) | 2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = VERY POOR
 DECAYED ORGANICS = MODERATE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 4.0KM**2

NTS-105K06

 * * *
 * SAMPLE * 81G0017 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 07MAY81
----- -EASTING 597000E -----
-NORTHNG 922400N
NTS- 105K06

SAMPLERS : NP/DC

* * *
* SAMPLE * 81G0018 *
* * *

SAMPLE 81G0018 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .68 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 700 | 0.6 | 30 | 78 | 0.2 | 32 | 2 | 400 | 76 | 3.80 | 910 | 6 | 1.6 | < | 10 | 5.10 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.00 |
| -60 HP TOT | | 0.1 | 28 | 155 | 0.3 | 30 | 2 | | | 8.40 | 7900 | 22 | 4.2 | | | 10.57 |
| -35+60 IP OX | | 0.1 | 10 | 55 | 0.3 | 15 | 1 | | | 1.70 | 510 | 10 | | | | |
| -35+60 IP TOT | | 0.1 | 28 | 365 | 0.4 | 50 | 1 | | | 11.00 | 1200 | 45 | | | | 6.26 |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN BLACK/DAR

SAMPLE SITE= POINT BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | | | | | | | | | | | 0.6M | VERY POOR | LOW | | |
| | 2 | X | X | X | X | X | X | X | X | X | X | | | | | |
| | 1 | X | X | X | X | X | X | X | X | X | X | | | | | |
| | 0 | X | X | X | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 6.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0018 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 07MAY81
----- -EASTING 594200E -----
-NORTHNG 918800N
NTS- 105K06

SAMPLERS : CH/NM

* * *
* SAMPLE * 81G0019 *
* * *

SAMPLE 81G0019 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 4.24 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 500 | 0.6 | 74 | 90 | 0.6 | 16 | 4 | 100 | NSS | 2.90 | 800 | 4 | 1.8 | < | 10 | 2.52 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .68 |
| -60 HP TOT | | 0.1 | 18 | 85 | 0.1 | 10 | 3 | | | 4.00 | 2900 | 5 | 0.8 | | | 6.20 |
| -35+60 IP OX | | 0.1 | 7 | 38 | 0.4 | 7 | 1 | | | 1.55 | 300 | 5 | | | | |
| -35+60 IP TOT | | 0.2 | 13 | 184 | 0.2 | 11 | 2 | | | 7.44 | 1120 | 13 | | | | .99 |

STREAM WIDTH= 1.5M WATER LEVEL= HIGH FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = POSSIBLE ROAD

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | | | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | | | | | | X | | X | | | | | | | |
| | NONE | 0 | | | | | | X | | X | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = HIGH
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= NOT RECORDED
----- WEIGHT=
BASIN AREA = 6.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0019 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 07MAY81
 ----- -EASTING 591100E -----
 -NORTHNG 917300N
 NTS- 105K06 G

DATE SAMPLED: 07MAY81
 SAMPLERS : NP/DC

 * * *
 * SAMPLE * 81G0020 *
 * * *

SAMPLE 81G0020 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.86 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .02 |
| -60 HN TOT | 700 | NSS | NSS | NSS | NSS | NSS | NSS | 570 | NSS | NSS | NSS | NSS | NSS | < 10 | | .92 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .50 |
| -60 HP TOT | | 0.1 | 35 | 55 | 0.7 | 9 | 3 | | | 3.75 | 3740 | 3 | 0.1 | | | 4.20 |
| -35+60 IP OX | | 0.1 | 5 | 21 | 0.1 | 3 | 1 | | | 1.45 | 165 | 8 | | | | |
| -35+60 IP TOT | | 0.2 | 8 | 139 | 0.2 | 8 | 3 | | | 5.90 | 910 | 8 | | | | .79 |

STREAM WIDTH= 4.5M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= OTHER STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= MODERATE FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | |
|----------|------------------|---|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.9M |
| ----- | MODERATE(10-50%) | 2 | X | | | | | | | | | | | | | SEDIMENT SORTING = GOOD |
| | LITTLE(<10%) | 1 | X | | | | | | | | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | | | | | | | | | | | | | GJ-SORTING PARAMETER = |
| | | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 0.0KM**2

NTS-105K06

 * * *
 * SAMPLE * 81G0020 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 16MAR82
----- -EASTING 589000E -----
-NORTHNG 924500N G
NTS- 105K06

DATE SAMPLED: 16MAR82
SAMPLERS : NM/

* * *
* SAMPLE * 81G0021 *
* * *

SAMPLE 81G0021

A S S A Y R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.69 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 2900 | 0.8 | 36 | 116 | 0.2 | 32 | 4 | 190 | NSS | 3.40 | 655 | 8 | NSS | < | 10 | 2.15 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .23 |
| -60 HP TOT | | 0.1 | 23 | 118 | 0.1 | 22 | 3 | | | 4.30 | 1680 | 6 | 2.8 | | | 4.52 |
| -35+60 IP OX | | 0.2 | 8 | 92 | 0.2 | 21 | 2 | | | 3.60 | 600 | 16 | | | | |
| -35+60 IP TOT | | 0.3 | 32 | 332 | 0.3 | 52 | 8 | | | 10.80 | 1260 | 48 | | | | .48 |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= NOT RECORDED SAMPLE POSITION= NOT RECORDED
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
 ----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = POOR
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 8.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0021 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 07MAY81
----- -EASTING 587700E -----
-NORTHNG 924000N
NTS- 105K06

SAMPLERS : CH/NM

* * *
* SAMPLE * 81G0022 *
* * *

SAMPLE 81G0022 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.32 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | | 1.6 | 116 | 540 | 0.4 | 132 | 2 | NSS | NSS | 4.50 | 1000 | 580 | NSS | < | 17 | .98 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.34 |
| -60 HP TOT | | 0.1 | 27 | 215 | 0.1 | 37 | 1 | | | 5.65 | 4600 | 16 | 1.2 | | | 3.46 |
| -35+60 IP OX | | 0.1 | 1 | 26 | 0.1 | 11 | 1 | | | 1.25 | 340 | 11 | | | | |
| -35+60 IP TOT | | 0.1 | 13 | 152 | 0.1 | 50 | 1 | | | 5.95 | 825 | 36 | | | | 4.42 |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | X | X | X | X | X | X | | 0.3M | MODERATE | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 14.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0022 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 598700E -----
 -NORTHNG 899900N
 NTS- 105K03 G

DATE SAMPLED: 16MAR82
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0023 *
 * * *

SAMPLE 81G0023 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.37 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 7700 | 1 | 72 | 164 | 0.2 | 166 | 2 | 520 | NSS | 7.60 | 620 | 220 | 1.6 | | 10 | 2.24 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 8.99 |
| -60 HP TOT | | 0.1 | 44 | 120 | 0.1 | 28 | 2 | | | 5.68 | 2500 | 17 | 1.2 | | | 8.63 |
| -35+60 IP OX | | 0.1 | 8 | 20 | 0.1 | 5 | 1 | | | 1.15 | 240 | 11 | | | | |
| -35+60 IP TOT | | 0.1 | 38 | 142 | 0.1 | 22 | 1 | | | 5.85 | 840 | 23 | | | | 11.45 |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= NOT RECORD

SAMPLE SITE= BACK EDDY STREAM TYPE= NOT RECORDED SAMPLE POSITION= NOT RECORDED

PRECIPITATE OR STAIN= NOT RECORDED
 CONTAMINATION = POSSIBLE ROAD

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|---|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | | X | X | X | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | | | X | | | | | | | |
| | NONE | 0 | X | X | X | X | X | | | X | | X | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 9.0KM**2

NTS-105K03

 * * *
 * SAMPLE * 81G0023 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 602300E -----
 -NORTHNG 903000N
 NTS- 105K03

DATE SAMPLED: 07MAY81
 SAMPLERS : NP/DC

 * * *
 * SAMPLE * 81G0024 *
 * * *

SAMPLE 81G0024 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .25 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 11 | .59 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.67 |
| -60 HP TOT | | 0.1 | 27 | 95 | 4.1 | 20 | 1 | | | 5.25 | 4350 | 14 | 0.4 | | | 2.52 |
| -35+60 IP CX | | 0.1 | 8 | 21 | 0.1 | 7 | 1 | | | 1.40 | 145 | 10 | | | | |
| -35+60 IP TOT | | 0.1 | 25 | 262 | 0.1 | 32 | 1 | | | 10.00 | 1500 | 24 | | | | 2.49 |

STREAM WIDTH= 1.8M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BAFFLED BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = PROBABLE ROAD

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 17.0KM**2

NTS-105K03

 * * *
 * SAMPLE * 81G0024 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 07MAY81
 ----- -EASTING 604400E -----
 -NORTHNG 904500N
 NTS- 105K07

SAMPLERS : CH/NM

 * * *
 * SAMPLE * 81G0025 *
 * * *

SAMPLE 81G0025 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .67 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 10000 | 0.8 | 68 | 114 | 0.2 | 188 | 2 | 400 | NSS | 5.55 | 635 | 430 | NSS | | 10 | 2.26 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.91 |
| -60 HP TOT | | 0.1 | 42 | 116 | 0.5 | 30 | 2 | | | 6.65 | 3450 | 24 | 1.8 | | | 11.79 |
| -35+60 IP OX | | 0.1 | 10 | 40 | 0.1 | 11 | 1 | | | 1.70 | 290 | 10 | | | | |
| -35+60 IP TOT | | 0.1 | 32 | 300 | 0.4 | 44 | 1 | | | 11.00 | 1150 | 55 | | | | 6.00 |

STREAM WIDTH= 1.8M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= BRAID/MEANDR SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE CAMP SITE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | | | | | | | | | | | 1.5M | MODERATE | LOW | | |
| | | 2 | | | | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | | | |
| | | | | 0 | | | | | | | | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 7.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0025 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C8 PROJECT DATE SAMPLED: 07MAY81
-EASTING 606100E SAMPLERS : NP/DC
-NORTHNG 907600N G
NTS- 105K07

* * *
* SAMPLE * 81G0026 *
* * *

SAMPLE 81G0026 ASSAY RESULTS

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include various sample tests like -150 HM TOT, -60+150HM TOT, etc.

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN BLACK/DAR
SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 1.2M
MODERATE(10-50%) 2 X X X X X X SEDIMENT SORTING = VERY POOR
LITTLE(<10%) 1 X X X X X X DECAYED ORGANICS = NONE
NONE 0 X X X X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT=
BASIN AREA = 17.0KM**2

NTS-105K07

* * *
* SAMPLE * 81G0026 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 03 PROJECT DATE SAMPLED: 07MAY81
-EASTING 606400E -NORTHNG 907700N NTS- 105K07

SAMPLERS : NP/DC

* * *
* SAMPLE * 81G0027 *
* * *

Table with columns: SAMPLE 81G0027, TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, HN TOT, HP TOT, IP TOT for various depths.

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.3M PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.9M SEDIMENT SORTING = POOR DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER = GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE WEIGHT= BASIN AREA = 7.0KM**2

NTS-105K07

* * *
* SAMPLE * 81G0027 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 606000E -----
 -NORTHNG 906800N G
 NTS- 105K07

DATE SAMPLED: 16MAR82
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0028 *
 * * *

SAMPLE 81G0028 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -150 HM TOT | | | | | | | | | | | | | | | | .50 |
| -60+150HM TOT | | | | | | | | | | | | | | | | .19 |
| -35+60 HM TOT | | | | | | | | | | | | | | | | .01 |
| -20+35 HM TOT | | | | | | | | | | | | | | | | .08 |
| -60 IM TOT | | | | | | | | | | | | | | | | .13 |
| -150 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | 4770 | | .47 |
| -60+150HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < 10 | | 1.07 |
| -35+60 HN TOT | NSS | 0.3 | 44 | 160 | 0.3 | 16 | 4 | NSS | NSS | 3.20 | 760 | 18 | NSS | 20 | | 1.38 |
| -20+35 HN TOT | 3100 | 0.2 | 20 | 80 | 0.2 | 18 | 4 | | | 3.00 | 680 | 14 | | | | .76 |
| -60 IN TOT | | | | | | | | | | | | | | | | 9.09 |
| -150 HP TOT | | | | | | | | | | | | | | | | 1.23 |
| -60+150HP TOT | | | | | | | | | | | | | | | | 3.25 |
| -60 HP TOT | | 0.1 | 30 | 115 | 0.6 | 24 | 3 | | | 4.55 | 1880 | 30 | 1.4 | | | 3.48 |
| -35+60 HP TOT | | | | | | | | | | | | | | | | 3.43 |
| -20+35 HP TOT | | | | | | | | | | | | | | | | 1.98 |
| -60 IP OX | | 0.1 | 8 | 44 | 0.4 | 9 | 1 | | | 1.60 | 230 | 14 | | | | |
| -60 IP TOT | | 0.1 | 23 | 220 | 0.6 | 38 | 1 | | | 6.90 | 720 | 32 | | | | 6.89 |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.1M
 PH = 0.0 SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= NOT RECORDED SAMPLE POSITION= NOT RECORDED

PRECIPITATE OR STAIN= NOT RECORDED
 CONTAMINATION = NOT RECORDED

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|
| | 3 | 2 | 1 | 0 | | | | | | | |
| | | | X | | X | X | X | X | X | X | X |
| | | | X | | X | X | X | X | X | X | X |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = MODERATE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 4.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0028 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 606500E -----
 -NORTHNG 906200N
 NTS- 105K07

DATE SAMPLED: 07MAY81
 SAMPLERS : CH/NM

 * * *
 * SAMPLE * 81G0029 *
 * * *

SAMPLE 81G0029 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -150 HM TOT | | | | | | | | | | | | | | | | .39 |
| -60+150HM TOT | | | | | | | | | | | | | | | | .25 |
| -35+60 HM TOT | | | | | | | | | | | | | | | | .08 |
| -20+35 HM TOT | | | | | | | | | | | | | | | | .07 |
| -60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -150 HN TOT | NSS | 0.3 | 135 | 105 | 0.3 | 27 | 3 | NSS | NSS | 1.65 | 430 | 66 | NSS | | 70 | 1.29 |
| -60+150HN TOT | 3200 | 0.4 | 54 | 70 | 0.2 | 30 | 2 | 800 | 52 | 2.10 | 620 | 134 | 1.6 | < | 10 | 5.57 |
| -35+60 HN TOT | 2800 | 0.4 | 56 | 72 | 0.2 | 18 | 4 | 500 | 40 | 2.50 | 760 | 66 | 0.8 | | 10 | 12.70 |
| -20+35 HN TOT | 3000 | 0.2 | 24 | 60 | 0.2 | 10 | 6 | | | 2.40 | 680 | 32 | | | | 20.53 |
| -60 IN TOT | | | | | | | | | | | | | | | | 3.04 |
| -150 HP TOT | | | | | | | | | | | | | | | | 1.77 |
| -60+150HP TOT | | | | | | | | | | | | | | | | 13.59 |
| -60 HR TOT | | 0.1 | 24 | 95 | 0.4 | 22 | 2 | | | 4.10 | 2460 | 15 | 1 | | | 15.36 |
| -35+60 HP TOT | | | | | | | | | | | | | | | | 31.90 |
| -20+35 HP TOT | | | | | | | | | | | | | | | | 37.36 |
| -60 IP OX | | 0.1 | 11 | 41 | 0.6 | 12 | 1 | | | 1.80 | 330 | 11 | | | | |
| -60 IP TOT | | 0.1 | 24 | 220 | 0.8 | 38 | 3 | | | 6.80 | 830 | 24 | | | | 2.60 |

STREAM WIDTH= 6.1M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.7M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = PROBABLE CAMP SITE

| | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---------------------------|----------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | MAX. BOULDER SIZE= | 0.3M |
| ----- | MODERATE(10-50%) | 2 | | | X | | | X | | SEDIMENT SORTING = | MODERATE |
| | LITTLE(<10%) | 1 | X | X | X | | | X | X | DECAYED ORGANICS = | LOW |
| | NONE | 0 | X | X | X | | | X | X | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | GJ-SORTING PARAMETER = | |
| | | | | | | | | | | GJ-COARSENESS PARAMETER = | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 30.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0029 *
 * * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 607600E -----
 -NORTHNG 906800N
 NTS- 105K07

DATE SAMPLED: 10JUN81
 SAMPLERS : CS/NP

 * * *
 * SAMPLE * 81G0030 *
 * * *

SAMPLE 81G0030 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .40 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 3300 | 0.2 | 48 | 60 | 0.2 | 26 | 2 | 420 | 28 | 2.30 | 370 | 20 | 0.8 | < | 10 | 10.52 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 17.42 |
| -60 HP TOT | | 0.1 | 8 | 62 | 0.1 | 12 | 2 | | | 2.65 | 1850 | 5 | 0.2 | | | 47.09 |
| -35+60 IP OX | | 0.1 | 3 | 26 | 0.1 | 7 | 1 | | | 1.20 | 375 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 16 | 147 | 0.3 | 29 | 1 | | | 7.15 | 985 | 17 | | | | 18.85 |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN BLACK/DAR
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= SLIGHT ORGANIC SLIME
 CONTAMINATION = POSSIBLE GOSSAN

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | VERY POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 24.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0030 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C8 PROJECT
----- -EASTING 603800E
-NORTHNG 914200N
NTS- 105K07

DATE SAMPLED: 10JUN81
SAMPLERS : CH/DC

* * *
* SAMPLE * 81G0031 *
* * *

SAMPLE
81G0031

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .60 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 600 | 0.4 | 128 | 180 | 1.8 | 34 | 4 | 155 | NSS | 3.70 | 740 | 30 | NSS | < 10 | | 1.86 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.32 |
| -60 HP TOT | | 0.1 | 44 | 115 | 0.1 | 5 | 2 | | | 2.33 | 1900 | 16 | 0.4 | | | 11.30 |
| -35+60 IP OX | | 0.1 | 72 | 330 | 1.1 | 6 | 1 | | | 2.70 | 470 | 55 | | | | |
| -35+60 IP TOT | | 0.5 | 128 | 950 | 1.2 | 18 | 2 | | | 9.70 | 1150 | 180 | | | | 3.00 |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
----- DEPTH= 0.8M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKORANGE

SAMPLE SITE= OTHER STREAM TYPE= MEANDERING SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | X | | | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | | | | | | | | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 12.0KM**2

NTS-105K07

* * *
* SAMPLE * 81G0031 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 10JUN81
-EASTING 606800E -NORTHNG 916000N NTS- 105K07

SAMPLERS : CS/NM

* * *
* SAMPLE * 81G0032 *
* * *

SAMPLE 81G0032

A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, HP TOT, IP OX, IP TOT.

STREAM WIDTH= 3.0M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.1M PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= SLIGHT ORGANIC SLIME
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT=
BASIN AREA = 33.0KM**2

NTS-105K07

* * *
* SAMPLE * 81G0032 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 609600E -----
 -NORTHNG 914500N
 NTS- 105K07

DATE SAMPLED: 10JUN81
 SAMPLERS : CH/DC

 * * *
 * SAMPLE * 81G0033 *
 * * *

SAMPLE 81G0033 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .40 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | 2950 | 7.4 | 146 | 170 | 0.8 | 196 | 2 | 85 | 112 | 3.25 | 485 | 166 | 2.4 | | 40 | 6.96 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 16.90 |
| -60 HP TOT | | 0.1 | 5 | 125 | 0.1 | 18 | 1 | | | 3.28 | 2000 | 10 | 0.1 | | | 55.00 |
| -35+60 IP OX | | 0.1 | 5 | 139 | 0.5 | 14 | 1 | | | 3.70 | 1050 | 24 | | | | |
| -35+60 IP TOT | | 0.1 | 13 | 650 | 1.4 | 92 | 1 | | | 13.00 | 1900 | 61 | | | | 28.60 |

STREAM WIDTH= 3.0M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.9M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE CAMP SITE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 1.5M |
| ----- | MODERATE(10-50%) | 2 | | | | | | | X | X | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | X | | | | | | X | X | | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 41.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0033 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 10JUN81
----- -EASTING 612300E -SAMPLERS : CS/NM
-NORTHNG 917800N G
NTS- 105K07

* * *
* SAMPLE * 81G0034 *
* * *

SAMPLE 81G0034 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.37 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 850 | 0.4 | 48 | 128 | 0.6 | 28 | 2 | 100 | 68 | 2.70 | 415 | 8 | 0.8 | < | 10 | 20.86 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 24.80 |
| -60 HP TOT | | 0.1 | 6 | 88 | 0.1 | 11 | 1 | | | 2.20 | 1540 | 4 | 0.1 | | | 192.22 |
| -35+60 IP OX | | 0.1 | 10 | 186 | 0.2 | 10 | 1 | | | 2.00 | 565 | 9 | | | | |
| -35+60 IP TOT | | 0.2 | 15 | 570 | 0.5 | 44 | 1 | | | 12.00 | 1200 | 35 | | | | 22.94 |

STREAM WIDTH= 2.4M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= STEEP
 ----- DEPTH= 0.3M
 PH. = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR YELLOW SEDIMENT COLOR= GREEN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= VARIABLE SLIGHT ORGANIC SLIME
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3
 ----- MODERATE(10-50%) 2 X
 LITTLE(<10%) 1 X X X X
 NONE 0 X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 MAX. BOULDER SIZE= 0.0M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 55.0KM**2

NTS-105K07

* * *
* SAMPLE * 81G0034 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 10MAY81
 ----- -EASTING 614500E ----- SAMPLERS : GJ/NP
 -NORTHNG 911800N G
 NTS- 105K07

 * * *
 * SAMPLE * 81G0035 *
 * * *

SAMPLE 81G0035 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .23 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 2000 | 0.6 | 26 | 56 | 0.2 | 24 | 2 | 105 | 12 | 2.50 | 270 | 18 | 0.4 | < | 10 | 10.15 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 14.64 |
| -60 HP TOT | | 0.1 | 11 | 53 | 0.1 | 12 | 1 | | | 4.00 | 2500 | 2 | 1 | | | 61.68 |
| -35+60 IP OX | | 0.1 | 4 | 30 | 0.1 | 11 | 1 | | | 1.80 | 370 | 3 | | | | |
| -35+60 IP TOT | | 0.3 | 22 | 155 | 0.2 | 80 | 1 | | | 13.00 | 1050 | 29 | | | | 14.63 |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= WHITE/LIGHTBROWN SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE CAMP SITE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | | | | | | | | | | | 0.3M | VERY POOR | LOW | | |
| | | X | X | X | X | X | X | X | X | X | X | | | | | |
| | | X | X | X | X | X | X | X | X | X | X | | | | | |
| | | X | X | X | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 9.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0035 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C3 PROJECT
 ----- -EASTING 613800E -----
 -NORTHNG 909600N
 NTS- 105K07

DATE SAMPLED: 10JUN81
 SAMPLERS : CH/DC

 * * *
 * SAMPLE * 81G0036 *
 * * *

SAMPLE 81G0036 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .24 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | NSS | 0.8 | 100 | 80 | 0.4 | 28 | 2 | NSS | NSS | 2.60 | 660 | 12 | NSS | < | 10 | 1.50 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.13 |
| -60 HP TOT | | 0.1 | 12 | 110 | 0.1 | 11 | 1 | | | 4.15 | 2430 | 4 | 0.2 | | | 13.38 |
| -35+60 IP OX | | 0.1 | 5 | 35 | 0.1 | 8 | 1 | | | 1.70 | 1000 | 14 | | | | |
| -35+60 IP TOT | | 0.1 | 16 | 225 | 0.2 | 34 | 1 | | | 10.00 | 1800 | 30 | | | | 4.88 |

STREAM WIDTH= 4.5M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.5M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.9M |
| ----- | MODERATE(10-50%) | 2 | X | | | | | X | | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | X | | | | | X | | X | | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 111.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0036 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 614600E -----
 -NORTHNG 908700N
 NTS- 105K07

DATE SAMPLED: 10JUN81
 SAMPLERS : CH/DC

 * * *
 * SAMPLE * 81G0037 *
 * * *

SAMPLE
 81G0037

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.92 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 1650 | 0.2 | 36 | 86 | 0.4 | 34 | 2 | 500 | | 2.40 | 470 | 14 | 1.6 | | 10 | 3.05 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.08 |
| -60 HP TOT | | 0.1 | 21 | 76 | 0.1 | 5 | 2 | | | 2.98 | 2010 | 4 | 0.1 | | | 31.58 |
| -35+60 IP OX | | 0.1 | 7 | 18 | 0.1 | 2 | 1 | | | 1.25 | 320 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 36 | 188 | 0.7 | 10 | 1 | | | 8.45 | 1250 | 16 | | | | 5.81 |

STREAM WIDTH= 4.5M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.7M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|------------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.9M |
| ----- | MODERATE(10-50%) | 2 | | | | | | | | | | | | | | | SEDIMENT SORTING = VERY POOR |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 221.0KM**2

NTS-105K07

 * * *
 * SAMPLE * 81G0037 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 16MAR82
----- -EASTING 608200E -----
-NORTHNG 906400N G
NTS- 105K07

SAMPLERS : CS/NM

* * *
* SAMPLE * 81G0038 *
* * *

SAMPLE 81G0038 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .85 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | 1950 | 0.4 | 62 | 76 | 0.2 | 24 | 2 | 190 | 28 | 2.50 | 430 | 6 | 3.2 | | 10 | 6.38 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.87 |
| -60 HP TOT | | 0.1 | 8 | 80 | 0.1 | 8 | 1 | | | 3.90 | 2120 | 3 | 0.1 | | | 36.95 |
| -35+60 IP OX | | 0.1 | 4 | 28 | 0.1 | 6 | 1 | | | 1.30 | 525 | 9 | | | | |
| -35+60 IP TOT | | 0.1 | 11 | 212 | 0.2 | 25 | 1 | | | 9.55 | 1400 | 25 | | | | 4.21 |

STREAM WIDTH= 6.1M WATER LEVEL= HIGH FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= SLIGHT
CONTAMINATION = POSSIBLE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | MODERATE | MODERATE | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 361.0KM**2

NTS-105K07

* * *
* SAMPLE * 81G0038 *
* * *

EX033

H E A V Y M I N E R A L S

2CMAY82

LOCATION UTM-ZONE GS PROJECT
----- -EASTING 601500E -----
-NORTHNG 901600N
NTS- 105K03

DATE SAMPLED: 10JUN81
SAMPLERS : CH/DC

* * *
* SAMPLE * 81G0039 *
* * *

SAMPLE 81G0039 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .19 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | NSS | 0.2 | 20 | 72 | 0.2 | 38 | 2 | NSS | NSS | 2.95 | 580 | 8 | NSS | < 10 | | 1.58 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 6.32 |
| -60 HP TOT | | 0.1 | 18 | 100 | 0.1 | 7 | 1 | | | 3.15 | 2230 | 5 | 0.2 | | | 12.89 |
| -35+60 IP OX | | 0.1 | 6 | 28 | 0.1 | 7 | 1 | | | 1.20 | 390 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 14 | 182 | 0.4 | 30 | 1 | | | 7.95 | 1100 | 25 | | | | 10.41 |

STREAM WIDTH= 4.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X SEDIMENT SORTING = VERY POOR
 LITTLE(<10%) 1 X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 470.0KM**2

NTS-105K03

* * *
* SAMPLE * 81G0039 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 10JUN81
 ----- -EASTING 601300E ----- SAMPLERS : CS/NP
 -NORTHNG 900600N G
 NTS- 105K03

 * * *
 * SAMPLE * 81G0040 *
 * * *

SAMPLE 81G0040 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 3.19 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 14000 | 0.4 | 82 | 106 | 0.2 | 70 | 2 | 100 | 24 | 3.70 | 550 | 6 | 1.6 | | 70 | 3.56 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .62 |
| -60 HP TOT | | 0.1 | 75 | 235 | 0.7 | 26 | 2 | | | 6.90 | 2100 | 19 | 1 | | | 8.63 |
| -35+60 IP OX | | 0.1 | 54 | 124 | 0.1 | 21 | 1 | | | 3.10 | 465 | 27 | | | | |
| -35+60 IP TOT | | 0.1 | 120 | 925 | 0.1 | 94 | 4 | | | 13.00 | 1650 | 120 | | | | 4.28 |

STREAM WIDTH= 9.1M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= GREEN YELLOW SEDIMENT COLOR= BROWN BLACK/DAR
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE EXOTIC TILL

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | GOOD | LOW | = | = |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 37.0KM**2

NTS-105K03

 * * *
 * SAMPLE * 81G0040 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 10JUN81
----- -EASTING 595000E -----
-NORTHNG 897800N
NTS- 105K03 G

DATE SAMPLED: 10JUN81
SAMPLERS : NM/GJ

* * *
* SAMPLE * 81G0041 *
* * *

SAMPLE 81G0041 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AC PPM | PS PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .56 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 16000 | 0.4 | 32 | 86 | 0.2 | 200 | 2 | 395 | 48 | 3.50 | 500 | 380 | 0.8 | | 40 | 5.34 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 12.60 |
| -60 HP TOT | | 0.1 | 18 | 88 | 0.3 | 19 | 2 | | | 3.20 | 1730 | 11 | 0.6 | | | 23.43 |
| -35+60 IP OX | | 0.2 | 5 | 32 | 0.1 | 8 | 1 | | | 1.30 | 410 | 10 | | | | |
| -35+60 IP TOT | | 0.1 | 26 | 235 | 0.2 | 36 | 1 | | | 9.45 | 1300 | 27 | | | | 11.83 |

STREAM WIDTH= 6.1M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR YELLOW SEDIMENT COLOR= BROWN

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE FE HYDROXIDES/RUST
CONTAMINATION = POSSIBLE ROAD

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.3M |
| ----- | MODERATE(10-50%) | 2 | X | | | | | | | | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 2.0KM**2

NTS-105K03

* * *
* SAMPLE * 81G0041 *
* * *

EX033

H E A V Y M I N E R A L S

2CMAY82

LOCATION UTM-ZONE 08 PROJECT
----- -EASTING 608300E -----
-NORTHNG 898200N G
NTS- 105K02

DATE SAMPLED: 10JUN81
SAMPLERS : CH/DC

* * *
* SAMPLE * 81G0042 *
* * *

SAMPLE 81G0042 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .99 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 6100 | 0.2 | 104 | 60 | 0.2 | 60 | 2 | NSS | NSS | 3.00 | 580 | 12 | NSS | < 10 | | 1.46 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.14 |
| -60 HP TOT | | 0.1 | 44 | 170 | 1 | 24 | 1 | | | 7.65 | 2720 | 24 | 1.4 | | | 6.60 |
| -35+60 IP OX | | 0.1 | 5 | 24 | 0.1 | 6 | 2 | | | 1.35 | 350 | 12 | | | | |
| -35+60 IP TOT | | 0.1 | 20 | 208 | 0.2 | 21 | 1 | | | 9.00 | 1350 | 36 | | | | 2.98 |

STREAM WIDTH= 0.3M WATER LEVEL= LOW FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.0M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= WHITE/LIGHTBROWN SEDIMENT COLOR= BROWN
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE TRENCH/DRILLSITE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE=
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = GOOD
 LITTLE(<10%) 1 X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 4.0KM**2

NTS-105K02

* * *
* SAMPLE * 81G0042 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
----- -EASTING 603900E -----
-NORTHNG 899200N G
NTS- 105K02

DATE SAMPLED: 10JUN81
SAMPLERS : CS/NP

* * * * *
* SAMPLE * 81G0043 *
* * * * *

SAMPLE
81G0043

A S S A Y

R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.44 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .08 |
| -60 HN TOT | 2000 | 0.2 | 28 | 74 | 0.2 | 40 | 2 | 80 | 4 | 4.30 | 570 | 10 | 1.6 | < | 10 | 3.19 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .39 |
| -60 HP TOT | | 0.1 | 50 | 180 | 0.6 | 21 | 1 | | | 5.45 | 1580 | 15 | 0.8 | | | 8.06 |
| -35+60 IP OX | | 0.2 | 28 | 96 | 0.2 | 18 | 1 | | | 2.90 | 440 | 22 | | | | |
| -35+60 IP TOT | | 0.2 | 80 | 860 | 0.2 | 96 | 2 | | | 14.70 | 1580 | 100 | | | | 1.86 |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN BLACK/DAR

SAMPLE SITE= POINT BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE CAMP SITE

SEDIMENT LOTS(>50%) 3 X X X MAX. BOULDER SIZE= 0.3M
 ----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = GOOD
 LITTLE(<10%) 1 X X X DECAYED ORGANICS = HIGH
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT=
BASIN AREA = 26.0KM**2

NTS-105K02

* * * * *
* SAMPLE * 81G0043 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 596200E -----
 -NORTHNG 906600N
 NTS- 105K06 G

DATE SAMPLED: 10JUN81
 SAMPLERS : CH/DC

 * * *
 * SAMPLE * 81G0044 *
 * * *

SAMPLE 81G0044 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -20+35 HN TOT | 400 | 0.2 | 118 | 68 | 0.2 | 18 | 4 | | | 2.40 | 470 | 114 | | | | |
| -60 HP TOT | | 0.1 | 38 | 135 | 0.1 | 11 | 1 | | | 7.05 | 1690 | 5 | 0.2 | | | |

STREAM WIDTH= 3.0M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKORANGE
 SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | | | | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | | | | | | | | | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= DUPLICATE
 ----- WEIGHT=
 BASIN AREA = 11.0KM**2

NTS-105K06

 * * *
 * SAMPLE * 81G0044 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE G8 PROJECT
 ----- -EASTING 586500E -----
 -NORTHNG 910900N
 NTS- 105K06

DATE SAMPLED: 10JUN81
 SAMPLERS : GJ/NM

 * * *
 * SAMPLE * 81G0047 *
 * * *

SAMPLE 81G0047 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .29 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 850 | 1.2 | 212 | 144 | 0.8 | 104 | 2 | 390 | 8 | 3.75 | 660 | 180 | 0.4 | < 10 | | 6.54 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.88 |
| -60 HP TOT | | 0.1 | 6 | 85 | 0.1 | 13 | 1 | | | 2.68 | 2150 | 7 | 0.2 | | | 26.32 |
| -35+60 IP OX | | 0.1 | 4 | 24 | 0.1 | 5 | 1 | | | 1.00 | 135 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 31 | 130 | 0.1 | 25 | 1 | | | 5.30 | 590 | 11 | | | | 9.64 |

STREAM WIDTH= 2.4M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR RED SEDIMENT COLOR= TAN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 1.5M | VERY POOR | LOW | = | = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 9.0KM**2

NTS-105K06

 * * *
 * SAMPLE * 81G0047 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 10JUN81
----- -EASTING 590900E -----
-NORTHNG 906900N PROJECT G
NTS- 105K06

DATE SAMPLED: 10JUN81
SAMPLERS : CS/NP

* * * * *
* SAMPLE * 81G0049 *
* * * * *

SAMPLE 81G0049 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 19.89 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 450 | 1 | 36 | 70 | 0.2 | 20 | 2 | 280 | NSS | 2.30 | 790 | 4 | 0.4 | | 2650 | 2.52 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .64 |
| -60 HP TOT | | 0.1 | 5 | 75 | 0.1 | 8 | 1 | | | 4.10 | 1340 | 2 | 0.1 | | | 23.65 |
| -35+60 IP OX | | 0.2 | 4 | 28 | 0.2 | 2 | 1 | | | .70 | 120 | 2 | | | | |
| -35+60 IP TOT | | 0.2 | 20 | 210 | 0.2 | 6 | 2 | | | 6.70 | 880 | 8 | | | | 1.75 |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.6M
PH = SUSPENDED MATTER= NOT RECORDED WATER COLOR= NOT RECORDED SEDIMENT COLOR= NOT RECORDED
SAMPLE SITE= NOT RECORDED STREAM TYPE= NOT RECORDED SAMPLE POSITION= NOT RECORDED
PRECIPITATE OR STAIN= NOT RECORDED
CONTAMINATION = NOT RECORDED

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE=
----- MODERATE(10-50%) 2 SEDIMENT SORTING = NOT RECORDED
LITTLE(<10%) 1 DECAYED ORGANICS = NOT RECORDED
NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= NOT RECORDED
----- WEIGHT=
BASIN AREA = 3.0KM**2

NTS-105K06

* * * * *
* SAMPLE * 81G0049 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 10JUN81
 ----- -EASTING 591000E -----
 -NORTHNG 906300N G
 NTS- 105K06

DATE SAMPLED: 10JUN81
 SAMPLERS : GS/NP

 * * *
 * SAMPLE * 81G0050 *
 * * *

SAMPLE 81G0050 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 8.36 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | 450 | 0.6 | 72 | 76 | 0.6 | 12 | 4 | 170 | 12 | 2.60 | 440 | 2 | 0.4 | < | 10 | 3.17 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .47 |
| -60 HP TOT | | 0.1 | 11 | 103 | 0.1 | 7 | 1 | | | 4.45 | 2450 | 3 | 0.1 | | | 19.13 |
| -35+60 IP OX | | 0.4 | 10 | 34 | 0.2 | 2 | 1 | | | 1.30 | 115 | 4 | | | | |
| -35+60 IP TOT | | 0.2 | 20 | 150 | 0.2 | 8 | 2 | | | 6.30 | 860 | 10 | | | | 1.37 |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.7M
 PH = SUSPENDED MATTER= NONE WATER COLOR= YELLOW GREEN SEDIMENT COLOR= BROWN
 SAMPLE SITE= BAFFLED BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | |
|----------|------------------|---|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | X | | | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | | | | | | | X | X | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | |
| | | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 4.0KM**2

MAX. BOULDER SIZE= 0.9M
 SEDIMENT SORTING = GOOD
 DECAYED ORGANICS = MODERATE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

NTS-105K06

 * * *
 * SAMPLE * 81G0050 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 09JUN81
-EASTING 591600E SAMPLERS : GJ/DC
-NORTHNG 902000N G
NTS- 105K03

* * *
* SAMPLE * 81G0055A *
* * *

SAMPLE 81G0055(A) ASSAY RESULTS

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include various sample tests like -150 HM TOT, -60+150HM TOT, etc.

STREAM WIDTH= 3.0M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= LOW
DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

Table with columns: SEDIMENT, LOTS(>50%), MODERATE(10-50%), LITTLE(<10%), NONE, BOULDERS, COBBLES, PEBBLES, GRANULES, SAND, SILT, CLAY, MAX. BOULDER SIZE= 0.9M, SEDIMENT SORTING = GOOD, DECAYED ORGANICS = NONE, GJ-SORTING PARAMETER =, GJ-COARSENESS PARAMETER =

SAMPLE STATUS= DUPLICATE
WEIGHT=
BASIN AREA = 29.0KM**2

* * *
* SAMPLE * 81G0055A *
* * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 09JUN81
----- -EASTING 591600E -----
-NORTHNG 902000N G
NTS- 105K03

DATE SAMPLED: 09JUN81
SAMPLERS : CH/NM

* * *
* SAMPLE * 81G0055B *
* * *

Table with columns: SAMPLE 81G0055(B), TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include various depth and type samples like -150 HM TOT, -60+150HM TOT, etc.

STREAM WIDTH= 3.0M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= LOW
DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 1.2M
SEDIMENT SORTING = GOOD
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= DUPLICATE
WEIGHT=
BASIN AREA = 29.0KM**2

* * *
* SAMPLE * 81G0055B *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 09JUN81
-EASTING 589200E SAMPLERS: CH/DC
-NORTHNG 901400N G
NTS- 105K03

* * *
* SAMPLE * 81G0056A *
* * *

SAMPLE 81G0056(A) A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include various sample tests like -150 HM TOT, -60+150HM TOT, etc.

STREAM WIDTH= 6.1M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 1.5M
SEDIMENT SORTING = GOOD
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= DUPLICATE
WEIGHT=
BASIN AREA = 49.0KM**2

NTS-105K03

* * *
* SAMPLE * 81G0056A *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 589200E -----
 -NORTHNG 901400N
 NTS- 105K03

DATE SAMPLED: 09JUN81
 SAMPLERS : NM/GJ

 * * *
 * SAMPLE * 81G0056B *
 * * *

SAMPLE 81G0056(B) ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -150 HM TOT | | | | | | | | | | | | | | | | .33 |
| -60+150HM TOT | | | | | | | | | | | | | | | | .57 |
| -35+60 HM TOT | | | | | | | | | | | | | | | | .67 |
| -20+35 HM TOT | | | | | | | | | | | | | | | | .38 |
| -60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -150 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 4530 | |
| -60+150HN TOT | 130 K | 2.4 | 320 | 240 | 0.2 | 260 | 4 | 300 | 50 | 2.20 | 380 | 86 | 8 | | 20 | .37 |
| -35+60 HN TOT | 60000 | 3.4 | 740 | 220 | 0.2 | 310 | 4 | 80 | 36 | 2.00 | 490 | 138 | 12.8 | | 100 | 3.76 |
| -20+35 HN TOT | 13000 | 3.4 | 1260 | 234 | 0.2 | 172 | 2 | | | 3.60 | 640 | 162 | | | | 4.89 |
| -60 IN TOT | | | | | | | | | | | | | | | | 2.69 |
| -60+150HP TOT | | | | | | | | | | | | | | | | 1.74 |
| -60 HP TOT | | 0.9 | 510 | 460 | 0.8 | 115 | 3 | | | 6.95 | 3630 | 101 | 5.8 | | | 8.66 |
| -35+60 HP TOT | | | | | | | | | | | | | | | | 11.90 |
| -20+35 HP TOT | | | | | | | | | | | | | | | | 13.62 |
| -60 IP OX | | 0.1 | 54 | 175 | 0.3 | 21 | 2 | | | 1.90 | 300 | 50 | | | | |
| -60 IP TOT | | 0.1 | 168 | 500 | 0.4 | 49 | 3 | | | 5.25 | 630 | 60 | | | | 6.32 |

STREAM WIDTH= 3.9M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.0M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | MODERATE | NONE | | |

SAMPLE STATUS= DUPLICATE
 ----- WEIGHT=
 BASIN AREA = 49.0KM**2

NTS-105K03

 * * *
 * SAMPLE * 81G0056B *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08
----- -EASTING 589200E
-NORTHNG 901400N
NTS- 105K03

PROJECT

G

DATE SAMPLED: 09JUN81
SAMPLERS : CH/DC

* * *
* SAMPLE * 81G0056E *
* * *

SAMPLE ----- A S S A Y R E S U L T S -----

81G0056(E)

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -150 HM TOT | | | | | | | | | | | | | | | | .65 |
| -60+150HM TOT | | | | | | | | | | | | | | | | .84 |
| -35+60 HM TOT | | | | | | | | | | | | | | | | .07 |
| -20+35 HM TOT | | | | | | | | | | | | | | | | .05 |
| -60 IM TOT | | | | | | | | | | | | | | | | .11 |
| -150 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 8070 | .93 |
| -60+150HN TOT | 110 K | 1.8 | 260 | 216 | 0.2 | 290 | 4 | 200 | 16 | 2.10 | 360 | 92 | 7.2 | | 10 | 3.75 |
| -35+60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < | 30 | .56 |
| -20+35 HN TOT | | | | | | | | | | | | | | | | .91 |
| -60 IN TOT | | | | | | | | | | | | | | | | 22.74 |
| -150 HP TOT | | | | | | | | | | | | | | | | 2.42 |
| -60+150HP TOT | | | | | | | | | | | | | | | | 6.84 |
| -60 HP TOT | | 0.7 | 475 | 470 | 0.8 | 86 | 2 | | | 8.10 | 4500 | 97 | 5.6 | | | 9.26 |
| -35+60 HP TOT | | | | | | | | | | | | | | | | 2.43 |
| -20+35 HP TOT | | | | | | | | | | | | | | | | 2.74 |
| -60 IP OX | | 0.1 | 135 | 150 | 0.1 | 17 | 2 | | | 2.40 | 450 | 59 | | | | |
| -60 IP TOT | | 0.1 | 175 | 710 | 0.4 | 58 | 4 | | | 7.90 | 960 | 80 | | | | 9.48 |

STREAM WIDTH= 4.5M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
----- DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---------------------------|------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | MAX. BOULDER SIZE= | 1.5M |
| ----- | MODERATE(10-50%) | 2 | X | | | | | | | SEDIMENT SORTING = | GOOD |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | | DECAYED ORGANICS = | LOW |
| | NONE | 0 | X | X | X | X | X | X | | GJ-SORTING PARAMETER = | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | GJ-COARSENESS PARAMETER = | |

SAMPLE STATUS= DUPLICATE
----- WEIGHT=
BASIN AREA = 49.0KM**2

NTS-105K03

* * *
* SAMPLE * 81G0056E *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 589200E -----
 -NORTHNG 901400N
 NTS- 105K03

DATE SAMPLED: 09JUN81
 SAMPLERS : NM/GJ

 * * *
 * SAMPLE * 81G0056G *
 * * *

SAMPLE 81G0056(G) ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -150 HM TOT | | | | | | | | | | | | | | | | .70 |
| -60+150HM TOT | | | | | | | | | | | | | | | | .88 |
| -35+60 HM TOT | | | | | | | | | | | | | | | | .19 |
| -20+35 HM TOT | | | | | | | | | | | | | | | | .02 |
| -60 IM TOT | | | | | | | | | | | | | | | | .10 |
| -150 HN TOT | NSS | 6.4 | 600 | 500 | 0.4 | 400 | 8 | NSS | NSS | 3.40 | 340 | 248 | NSS | | 5500 | 1.29 |
| -60+150HN TOT | 70000 | 1.4 | 320 | 255 | 0.2 | 230 | 4 | 100 | 12 | 2.60 | 680 | 58 | 7.2 | | 20 | 6.20 |
| -35+60 HN TOT | NSS | 1 | 720 | 252 | 0.5 | 132 | 4 | NSS | NSS | 3.30 | 510 | 119 | NSS | | 20 | 1.31 |
| -20+35 HN TOT | 8000 | 2.6 | 1420 | 276 | 0.2 | 60 | 2 | | | 4.10 | 650 | 138 | | | | .96 |
| -60 IN TOT | | | | | | | | | | | | | | | | 9.51 |
| -150 HP TOT | | | | | | | | | | | | | | | | 2.23 |
| -60+150HP TOT | | | | | | | | | | | | | | | | 8.06 |
| -60 HP TOT | | 0.9 | 550 | 510 | 1 | 90 | 2 | | | 7.90 | 3040 | 150 | 6.8 | | | 10.29 |
| -35+60 HP TOT | | | | | | | | | | | | | | | | 2.32 |
| -20+35 HP TOT | | | | | | | | | | | | | | | | 1.86 |
| -60 IP OX | | 0.1 | 165 | 185 | 0.4 | 24 | 1 | | | 2.45 | 410 | 63 | | | | |
| -60 IP TOT | | 0.1 | 273 | 780 | 0.7 | 70 | 5 | | | 8.50 | 1000 | 100 | | | | 5.79 |

STREAM WIDTH= 6.1M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | | | | | X | X | | | | | | | | |
| | LITTLE(<10%) | 1 | | X | X | X | X | X | X | | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
 SEDIMENT SORTING = VERY POOR
 DECAYED ORGANICS = MODERATE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= DUPLICATE
 ----- WEIGHT=
 BASIN AREA = 49.0KM**2

NTS-105K03

 * * *
 * SAMPLE * 81G0056G *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 589200E -----
 -NORTHNG 901400N
 NTS- 105K03 G

DATE SAMPLED: 09JUN81
 SAMPLERS : NM/GJ

 * * *
 * SAMPLE * 81G0056H *
 * * *

SAMPLE 81G0056(H) ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -150 HM TOT | | | | | | | | | | | | | | | | .89 |
| -60+150HM TOT | | | | | | | | | | | | | | | | 1.12 |
| -60 HM TOT | | | | | | | | | | | | | | | | |
| -35+60 HM TOT | | | | | | | | | | | | | | | | .39 |
| -20+35 HM TOT | | | | | | | | | | | | | | | | .24 |
| -60 IM TOT | | | | | | | | | | | | | | | | .09 |
| -150 HN TOT | 42000 | 2 | 360 | 324 | 0.2 | 250 | 4 | 250 | NSS | 2.20 | 310 | 63 | 4 | 4140 | | 2.03 |
| -60+150HN TOT | 120 K | 4.4 | 400 | 240 | 0.2 | 230 | 4 | 250 | 36 | 1.80 | 430 | 40 | 8.8 | 850 | | 6.32 |
| -35+60 HN TOT | 50000 | 2.8 | 680 | 216 | 0.2 | 230 | 2 | 50 | 16 | 2.20 | 490 | 106 | 11.2 | < 10 | | 4.50 |
| -20+35 HN TOT | 15000 | 2 | 1100 | 230 | 0.2 | 120 | 2 | | | 3.60 | 660 | 126 | | | | 4.51 |
| -60 IN TOT | | | | | | | | | | | | | | | | 5.40 |
| -150 HP TOT | | | | | | | | | | | | | | | | 2.85 |
| -60+150HP TOT | | | | | | | | | | | | | | | | 13.09 |
| -60 HP TOT | | 0.6 | 450 | 490 | 0.8 | 80 | 2 | | | 7.65 | 3120 | 115 | 5.8 | | | 15.94 |
| -35+60 HP TOT | | | | | | | | | | | | | | | | 12.35 |
| -20+35 HP TOT | | | | | | | | | | | | | | | | 14.29 |
| -60 IP OX | | 0.1 | 160 | 190 | 0.4 | 26 | 2 | | | 2.20 | 375 | 59 | | | | |
| -60 IP TOT | | 0.1 | 290 | 700 | 0.7 | 70 | 2 | | | 7.60 | 893 | 100 | | | | 6.74 |

STREAM WIDTH= 6.1M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 SEDIMENT SORTING = VERY POOR
 LITTLE(<10%) 1 X X X X X X X X X X
 NONE 0 X X X X X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= DUPLICATE
 ----- WEIGHT=
 BASIN AREA = 49.0KM**2

NTS-105K03

 * * *
 * SAMPLE * 81G0056H *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 09JUN81
----- -EASTING 592500E -----
-NORTHNG 902900N G
NTS- 105K03

SAMPLERS : CH/NM

* * *
* SAMPLE * 81G0063A *
* * *

SAMPLE ----- A S S A Y R E S U L T S -----

81G0063(A)

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -150 HM TOT | | | | | | | | | | | | | | | | .74 |
| -60+150HM TOT | | | | | | | | | | | | | | | | .30 |
| -35+60 HM TOT | | | | | | | | | | | | | | | | .07 |
| -20+35 HM TOT | | | | | | | | | | | | | | | | .05 |
| -60 IM TOT | | | | | | | | | | | | | | | | .09 |
| -150 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 1570 | 1.06 |
| -60+150HN TOT | 29000 | 2.8 | 540 | 3600 | 5 | 400 | 4 | NSS | NSS | 6.00 | 490 | 400 | 6 | | 180 | 1.91 |
| -35+60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 60 | .77 |
| -20+35 HN TOT | 25000 | 3.6 | 780 | 510 | 0.2 | 190 | 2 | | | 4.00 | 660 | 194 | | | | 1.24 |
| -60 IN TOT | | | | | | | | | | | | | | | | 6.38 |
| -150 HP TOT | | | | | | | | | | | | | | | | 2.30 |
| -60+150HP TOT | | | | | | | | | | | | | | | | 5.35 |
| -60 HP TOT | | 0.6 | 400 | 590 | 1 | 85 | 3 | | | 7.50 | 2800 | 115 | 4.4 | | | 7.65 |
| -35+60 HP TOT | | | | | | | | | | | | | | | | 2.34 |
| -20+35 HP TOT | | | | | | | | | | | | | | | | 3.66 |
| -60 IP OX | | 0.1 | 130 | 150 | 0.2 | 24 | 1 | | | 2.20 | 375 | 57 | | | | |
| -60 IP TOT | | 0.1 | 160 | 600 | 0.5 | 58 | 2 | | | 7.60 | 910 | 90 | | | | 7.52 |

STREAM WIDTH= 3.6M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | X | | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | |

MAX. BOULDER SIZE= 0.9M
SEDIMENT SORTING = GOOD
DECAYED ORGANICS = HIGH
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= DUPLICATE
----- WEIGHT=
BASIN AREA = 25.0KM**2

NTS-105K03

* * *
* SAMPLE * 81G0063A *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
 ----- -EASTING 592500E -----
 -NORTHNG 902900N
 NTS- 105K03 G

DATE SAMPLED: 09JUN81
 SAMPLERS : NM/GJ

 * * *
 * SAMPLE * 81G0063B *
 * * *

SAMPLE ----- A S S A Y R E S U L T S -----
 81G0063(B)

| TEST | BA PPM | AG PPM | PS PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -150 HM TOT | | | | | | | | | | | | | | | | .60 |
| -60+150HM TOT | | | | | | | | | | | | | | | | .47 |
| -35+60 HM TOT | | | | | | | | | | | | | | | | .06 |
| -20+35 HM TOT | | | | | | | | | | | | | | | | .22 |
| -60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -150 HN TOT | NSS | 5.3 | 970 | 3500 | 6.5 | 375 | 3 | NSS | NSS | 4.80 | 350 | 900 | NSS | 2830 | | 1.54 |
| -60+150HN TOT | 50000 | 3.2 | 840 | 2000 | 2.4 | 300 | 4 | 140 | 20 | 6.10 | 440 | 390 | 7.2 | 3600 | | 3.54 |
| -35+60 HN TOT | 50000 | 5.6 | 540 | 644 | 0.2 | 250 | 2 | 100 | 8 | 5.40 | 510 | 300 | 26 | 20 | | 2.83 |
| -20+35 HN TOT | 37000 | 4.4 | 1300 | 336 | 0.2 | 100 | 2 | | | 4.00 | 530 | 118 | | | | 4.96 |
| -60 IN TOT | | | | | | | | | | | | | | | | 8.48 |
| -150 HP TOT | | | | | | | | | | | | | | | | 1.85 |
| -60+150HP TOT | | | | | | | | | | | | | | | | 5.76 |
| -60 HP TOT | | 0.7 | 495 | 670 | 1.2 | 100 | 3 | | | 9.75 | 4580 | 101 | 4.6 | | | 7.61 |
| -35+60 HP TOT | | | | | | | | | | | | | | | | 4.48 |
| -20+35 HP TOT | | | | | | | | | | | | | | | | 7.21 |
| -60 IP OX | | 0.1 | 130 | 185 | 0.5 | 25 | 1 | | | 2.20 | 350 | 53 | | | | |
| -60 IP TOT | | 0.1 | 193 | 750 | 0.5 | 90 | 1 | | | 9.10 | 1020 | 105 | | | | 6.09 |

STREAM WIDTH= 3.6M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = 0.0 SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|------------------------|---|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|--|---------------------------|
| SEDIMENT LOTS(>50%) | 3 | X | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.9M |
| ----- MODERATE(10-50%) | 2 | X | | | | | | | | | | | | | | | SEDIMENT SORTING = GOOD |
| LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | | | | | | | | DECAYED ORGANICS = LOW |
| NONE | 0 | X | X | X | X | X | X | X | X | | | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= DUPLICATE
 ----- WEIGHT=
 BASIN AREA = 25.0KM**2

NTS-105K03

 * * *
 * SAMPLE * 81G0063B *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT DATE SAMPLED: 09JUN81
-EASTING 592500E
-NORTHNG 902900N
NTS- 105K03

SAMPLERS : CH/DC

* * *
* SAMPLE * 81G0063C *
* * *

SAMPLE 81G0063(C) A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include various sample types like HM TOT, HN TOT, HP TOT, IP TOT.

STREAM WIDTH= 4.5M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= SLIGHT GRADIENT= MODERATE
DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= MODERATE FE HYDROXIDES/RUST EXOTIC TILL
CONTAMINATION = PROBABLE

SEDIMENT LOTS(>50%) 3 X MODERATE(10-50%) 2 X LITTLE(<10%) 1 X X X X X NONE 0 X X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.9M
SEDIMENT SORTING = GOOD
DECAYED ORGANICS = HIGH
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= DUPLICATE
WEIGHT=
BASIN AREA = 25.0KM**2

NTS-105K03

* * *
* SAMPLE * 81G0063C *
* * *

EX033

H E A V Y M I N E R A L S

2CMAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 450000E -----
 -NORTHNG 794500N
 NTS- 105H05

DATE SAMPLED: 14JUN81
 SAMPLERS : DC/CH

 * * *
 * SAMPLE * 81G0064 *
 * * *

SAMPLE 81G0064 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .75 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .14 |
| -60 HN TOT | 22000 | 0.8 | 60 | 104 | 0.2 | 64 | 2 | 95 | NSS | 2.40 | 340 | 8 | NSS | 29000 | | 1.48 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.57 |
| -60 HP TOT | | 0.1 | 10 | 200 | 0.1 | 19 | 2 | | | 6.00 | 3370 | 5 | 0.8 | | | 3.74 |
| -35+60 IP OX | | 0.1 | 1 | 11 | 0.1 | 3 | 1 | | | .95 | 185 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 7 | 115 | 0.2 | 20 | 1 | | | 5.60 | 980 | 6 | | | | 22.12 |
| -80C TOT | 310 | 0.2 | 6 | 103 | 0.2 | 23 | 2 | 1 | | 2.30 | 952 | 11 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = UNCERTAIN

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | X | X | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | | | | | | | | X | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | |

MAX. BOULDER SIZE= 0.6M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = HIGH
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT=
 BASIN AREA = 23.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0064 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 14JUN81
-EASTING 450200E SAMPLERS : CH/DC
-NORTHNG 793900N G
NTS- 105H05

* * *
* SAMPLE * 81G0065 *
* * *

SAMPLE 81G0065 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include tests like HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, and TOT.

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE EXOTIC TILL
CONTAMINATION = POSSIBLE

Table with columns: SEDIMENT, LOTS(>50%), MODERATE(10-50%), LITTLE(<10%), NONE, BOULDERS, COBBLES, PEBBLES, GRANULES, SAND, SILT, CLAY. Includes checkmarks (X) for various sediment types.

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = NONE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 6.8KG
BASIN AREA = 32.0KM**2

* * *
* SAMPLE * 81G0065 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 14JUN81
----- -EASTING 452400E - - - - -
-NORTHNG 679440N G
NTS- 105H05

DATE SAMPLED: 14JUN81
SAMPLERS : NP/NM

* * *
* SAMPLE * 81G0066 *
* * *

SAMPLE 81G0066 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 4.45 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .32 |
| -60 HN TOT | 25000 | 0.2 | 126 | 50 | 0.4 | 40 | 2 | 275 | NSS | 1.45 | 250 | 4 | 0.4 | 65200 | | 2.71 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.75 |
| -60 HP TOT | | 0.1 | 64 | 325 | 0.1 | 27 | 3 | | | 9.15 | 5120 | 9 | 1.2 | | | 6.63 |
| -35+60 IP OX | | 0.1 | 2 | 13 | 0.1 | 4 | 1 | | | 1.10 | 260 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 11 | 136 | 0.1 | 25 | 1 | | | 6.20 | 1050 | 9 | | | | 28.15 |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.6M
PH = 2.0 SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.9M | POCR | NONE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 6.8KG
BASIN AREA = 14.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0066 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 14JUN81
 ----- -EASTING 452400E ----- SAMPLERS : NP/NM
 -NORTHNG 794800N G
 NTS- 105H05

 * * *
 * SAMPLE * 81G0067 *
 * * *

SAMPLE 81G0067 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.06 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | 15000 | 0.6 | 12 | 36 | 0.2 | 20 | 2 | 105 | NSS | 1.65 | 270 | 2 | 0.9 | 12600 | | 2.32 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.00 |
| -60 HP TOT | | 0.1 | 35 | 340 | 0.2 | 17 | 2 | | | 6.80 | 3100 | 5 | 0.6 | | | 5.18 |
| -35+60 IP OX | | 0.1 | 1 | 16 | 0.1 | 5 | 1 | | | .95 | 220 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 4 | 112 | 0.1 | 20 | 1 | | | 6.00 | 1000 | 6 | | | | 23.73 |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY BLACK/DAR
 SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | |
|------------------------|------------|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|--|
| ----- MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | | |
| LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 6.1M
 SEDIMENT SORTING = VERY POOR
 DECAYED ORGANICS = HIGH
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 5.9KG
 BASIN AREA = 13.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0067 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 14JUN81
-EASTING 448400E -NORTHNG 798300N NTS- 105H05

SAMPLERS : NP/NM

* * *
* SAMPLE * 81G0068 *
* * *

SAMPLE 81G0068 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT.

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.3M PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREEN GREY
SAMPLE SITE= POINT BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.3M SEDIMENT SORTING = VERY POOR DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER = GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE WEIGHT= 8.2KG BASIN AREA = 12.0KM**2

* * *
* SAMPLE * 81G0068 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 14JUN81
----- -EASTING 453200E -----
-NORTHNG 799300N
NTS- 105H05

SAMPLERS : CH/DC

* * *
* SAMPLE * 81G0069 *
* * *

SAMPLE 81G0069 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|------|
| -60 HM TOT | | | | | | | | | | | | | | | | .75 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .15 |
| -60 HN TOT | 2300 | 0.2 | 18 | 46 | 0.2 | 24 | 4 | 275 | NSS | 1.95 | 290 | 2 | NSS | < 10 | | 1.92 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.57 |
| -60 HP TOT | | 0.1 | 4 | 280 | 0.1 | 18 | 2 | | | 5.58 | 2400 | 4 | 0.2 | | | 3.92 |
| -35+60 IP OX | | 0.1 | 1 | 23 | 0.1 | 2 | 1 | | | .75 | 125 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 100 | 0.1 | 11 | 1 | | | 4.60 | 710 | 6 | | | | 9.25 |
| -80C TOT | 280 | 0.2 | 6 | 85 | 0.2 | 24 | 2 | 1 | | 3.20 | 1122 | 13 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | X | | | | | | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = NONE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.3KG
BASIN AREA = 12.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0069 *
* * *

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 30JUN81
 ----- -EASTING 451900E ----- SAMPLERS : NP/
 -NORTHNG 804200N G
 NTS- 105H05

 * * *
 * SAMPLE * 81G0070 *
 * * *

SAMPLE 81G0070 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 4.86 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .55 |
| -60 HN TOT | >50000 | 0.2 | 10 | 54 | 0.2 | 260 | 2 | 20 | 4 | 2.25 | 365 | 8 | 0.4 | 4330 | | 5.58 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 11.59 |
| -60 HP TOT | | 0.1 | 12 | 500 | 0.1 | 30 | 2 | | | 8.90 | 3430 | 4 | 0.8 | | | 7.26 |
| -35+60 IP OX | | 0.1 | 1 | 14 | 0.1 | 4 | 1 | | | .60 | 200 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 97 | 0.1 | 20 | 1 | | | 4.65 | 930 | 5 | | | | 52.78 |
| -80C TOT | 580 | 0.1 | 8 | 100 | 1 | 37 | 1 | 1 | | 2.40 | 641 | 11 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | X | X | X | | | | | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | | X | X | X | X | X | X | X | | | | | | | DECAYED ORGANICS = HIGH |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 11.8KG
 BASIN AREA = 11.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0070 *
 * * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
 ----- -EASTING 444800E -----
 -NORTHNG 802900N
 NTS- 105G08

SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0071 *
 * * *

SAMPLE 81G0071

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 3.05 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 800 | 1 | 22 | 36 | 0.2 | 18 | 2 | 220 | 24 | 3.20 | 340 | 4 | 0.4 | | 3280 | 11.52 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 18.74 |
| -60 HP TOT | | 0.1 | 3 | 55 | 0.1 | 23 | 4 | | | 7.30 | 2370 | 2 | 0.1 | | | 67.66 |
| -35+60 IP OX | | 0.1 | 1 | 17 | 0.1 | 7 | 1 | | | .40 | 62 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 70 | 0.1 | 26 | 1 | | | 4.05 | 610 | 2 | | | | 211.32 |
| -80C TOT | 230 | 0.1 | 6 | 72 | 1 | 32 | 1 | 1 | | 1.40 | 261 | 7 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= BRAID/MEANDR SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= MODERATE ORGANIC SLIME
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X |

MAX. BOULDER SIZE= 1.8M
 SEDIMENT SORTING = VERY POOR
 DECAYED ORGANICS = MODERATE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.9KG
 BASIN AREA = 7.0KM**2

NTS-105G08

 * * *
 * SAMPLE * 81G0071 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 447500E
-NORTHNG 800000N
NTS- 105H05

PROJECT

G

DATE SAMPLED: 01JUL81
SAMPLERS : CH/

* * * * *
* SAMPLE * 81G0073 *
* * * * *

SAMPLE
81G0073

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .94 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 750 | 0.2 | 14 | 70 | 0.2 | 40 | 2 | NSS | NSS | 2.35 | 320 | 4 | NSS | | 2970 | 1.83 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.96 |
| -60 HP TOT | | 0.1 | 7 | 95 | 0.1 | 30 | 3 | | | 6.90 | 1150 | 3 | 0.4 | | | 25.79 |
| -35+60 IP OX | | 0.1 | 1 | 17 | 0.1 | 8 | 1 | | | 1.10 | 200 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 4 | 111 | 0.4 | 33 | 1 | | | 6.10 | 950 | 7 | | | | 14.37 |
| -80C TOT | 300 | 0.3 | 12 | 85 | 1 | 82 | 1 | 1 | | 3.00 | 576 | 12 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BAFFLED BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= VARIABLE MODERATE ORGANIC SLIME
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | |
|----------|------------------|---|--|----------|---------|---------|----------|------|------|------|---|---|---|---|---|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | X | | | | | | | | | | | | SEDIMENT-SORTING = MODERATE |
| | LITTLE(<10%) | 1 | | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.7KG
BASIN AREA = 5.0KM**2

NTS-105H05

* * * * *
* SAMPLE * 81G0073 *
* * * * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 450000E -----
 -NORTHNG 808000N
 NTS- 105H05 G

DATE SAMPLED: 01JUL81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0074 *
 * * *

SAMPLE 81G0074 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .21 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 2850 | 0.2 | 26 | 78 | 0.2 | 110 | 4 | 2 | 4 | 6.85 | 680 | 4 | 0.4 | | 90 | 4.90 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.52 |
| -60 HP TOT | | 0.1 | 10 | 40 | 0.1 | 37 | 2 | | | 7.05 | 950 | 4 | 0.2 | | | 44.57 |
| -35+60 IP OX | | 0.1 | 1 | 12 | 0.1 | 13 | 1 | | | .40 | 105 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 73 | 0.1 | 54 | 2 | | | 4.85 | 730 | 4 | | | | 82.86 |
| -80C TOT | 260 | 0.1 | 12 | 87 | 1 | 76 | 1 | 1 | | 2.50 | 479 | 11 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | |
|---------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|------------------------------|
| SEDIMENT LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.3M |
| MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | | SEDIMENT SORTING = VERY POOR |
| LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.0KG
 BASIN AREA = 10.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0074 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 01JUL81
----- -EASTING 450000E -----
-NORTHNG 807000N
NTS- 105H05

SAMPLERS : NP/

* * *
* SAMPLE * 81G0075 *
* * *

SAMPLE 81G0075

A S S A Y R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .28 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 1100 | 0.4 | 18 | 56 | 0.2 | 96 | 2 | 25 | 4 | 3.60 | 430 | 6 | 0.8 | < 10 | | 3.11 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.73 |
| -60 HP TOT | | 0.1 | 16 | 70 | 0.1 | 60 | 3 | | | 7.80 | 1610 | 12 | 2.2 | | | |
| -35+60 IP OX | | 0.1 | 1 | 11 | 0.1 | 15 | 1 | | | .65 | 200 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 105 | 0.1 | 67 | 1 | | | 6.95 | 1100 | 6 | | | | 3.16 |
| -80C TOT | 240 | 0.3 | 12 | 99 | 2 | 83 | 1 | 1 | | 3.90 | 653 | 19 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | | X | X | X | | | | | | | | | SEDIMENT SORTING = GOOD |
| | LITTLE(<10%) | 1 | | | | X | X | X | | | | | | | | | DECAYED ORGANICS = HIGH |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 12.7KG
BASIN AREA = 4.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0075 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 453600E -----
 -NORTHNG 807800N G
 NTS- 105H05

DATE SAMPLED: 30JUN81
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0076 *
 * * *

SAMPLE 81G0076 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 5.70 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .79 |
| -60 HN TOT | 35000 | 0.2 | 10 | 54 | 0.2 | 96 | 2 | 40 | 16 | 3.10 | 420 | 10 | 0.4 | 1750 | | 4.71 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.51 |
| -60 HP TOT | | 0.1 | 17 | 440 | 0.1 | 90 | 10 | | | 7.90 | 3770 | 22 | 5.8 | | | 4.65 |
| -35+60 IP OX | | 0.1 | 1 | 24 | 0.1 | 12 | 1 | | | 1.20 | 455 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 7 | 168 | 0.1 | 55 | 2 | | | 6.65 | 1400 | 13 | | | | 21.68 |
| -80C TOT | 640 | 0.3 | 15 | 140 | 1 | 65 | 2 | 1 | | 2.90 | 811 | 12 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= TORRENT TURBULENCE= HIGH GRADIENT= EXTREME
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY
 SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|---------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|------------------------------|
| SEDIMENT LOTS(>50%) | 3 | X | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 1.2M |
| MODERATE(10-50%) | 2 | X | X | | | | | | | | | | | | | | SEDIMENT SORTING = VERY POOR |
| LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.5KG
 BASIN AREA = 2.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0076 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 30JUN81
----- -EASTING 455400E -----
-NORTHNG 687800N
NTS- 105H05

SAMPLERS : DC/

* * *
* SAMPLE * 81G0077 *
* * *

SAMPLE 81G0077 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.69 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | 2.49 |
| -60 HN TOT | 13000 | 0.2 | 10 | 30 | 0.2 | 210 | 4 | 18 | 4 | 2.65 | 325 | 6 | 1.6 | < 10 | | 2.67 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 8.45 |
| -60 HP TOT | | 0.1 | 1 | 190 | 0.1 | 45 | 1 | | | 4.60 | 1200 | 3 | 0.2 | | | 2.70 |
| -35+60 IP OX | | 0.1 | 1 | 6 | 0.1 | 4 | 1 | | | .25 | 34 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 43 | 0.1 | 17 | 1 | | | 2.75 | 390 | 2 | | | | 63.88 |
| -80C TOT | 740 | 0.4 | 13 | 176 | 2 | 48 | 1 | 1 | | 1.60 | 2333 | 3 | | | | |

STREAM WIDTH= 0.3M WATER LEVEL= NORMAL FLOW RATE= TORRENT TURBULENCE= HIGH GRADIENT= EXTREME
----- DEPTH= 0.0M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DAR

SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | X | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | |

MAX. BOULDER SIZE= 0.9M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 2.7KG
BASIN AREA = 4.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0077 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 30JUN81
----- -EASTING 455600E -----
-NORTHNG 807300N
NTS- 105H05

SAMPLERS : DL/

* * *
* SAMPLE * 81G0078 *
* * *

SAMPLE 81G0078 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 8.16 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .92 |
| -60 HN TOT | 27000 | 0.4 | 4 | 54 | 0.2 | 140 | 2 | 10 | 4 | 3.40 | 660 | 6 | 0.8 | < 10 | | 9.27 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.22 |
| -60 HP TOT | | 0.1 | 3 | 200 | 0.1 | 53 | 1 | | | 4.60 | 3250 | 5 | 0.8 | | | 10.76 |
| -35+60 IP OX | | 0.1 | 1 | 18 | 0.1 | 8 | 1 | | | .95 | 255 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 128 | 0.1 | 46 | 1 | | | 5.20 | 1025 | 6 | | | | 13.63 |
| -80C TOT | 370 | 0.3 | 8 | 115 | 1 | 52 | 2 | 1 | | 3.10 | 556 | 9 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DAR
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.6M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = VERY POOR
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.5KG
BASIN AREA = 0.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0078 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 30JUN81
----- -EASTING 457300E -----
-NORTHNG 808100N
NTS- 105HG5

SAMPLERS : NM/

* * *
* SAMPLE * 81G0079 *
* * *

SAMPLE 81G0079 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|------|
| -60 HM TOT | | | | | | | | | | | | | | | | .75 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .22 |
| -60 HN TOT | NSS | 0.2 | 10 | 90 | 0.2 | 130 | 2 | NSS | NSS | 2.00 | 360 | 18 | NSS | | 3710 | 1.09 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 7.06 |
| -60 HP TOT | | 0.1 | 115 | 170 | 0.1 | 45 | 2 | | | 7.85 | 2550 | 16 | 1.6 | | | 2.00 |
| -35+60 IP OX | | 0.1 | 10 | 76 | 0.1 | 22 | 1 | | | 1.88 | 820 | 20 | | | | |
| -35+60 IP TOT | | 0.3 | 22 | 270 | 0.1 | 103 | 1 | | | 9.15 | 1350 | 48 | | | | 6.91 |
| -80C TOT | 1100 | 0.1 | 17 | 361 | 2 | 67 | 2 | 1 | | 2.00 | 1234 | 14 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= STEEP
 DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY
 SAMPLE SITE= BAFFLED BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 10.9KG
BASIN AREA = 7.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0079 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 30JUN81
 ----- -EASTING 457100E -----
 -NORTHNG 808600N
 NTS- 105H05 G

DATE SAMPLED: 30JUN81
SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0080 *
 * * *

SAMPLE 81G0080 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 20.49 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .61 |
| -60 HN TOT | >50000 | 0.4 | 4 | 104 | 0.2 | 100 | 2 | 16 | 4 | 3.50 | 340 | 24 | 0.8 | | 210 | 11.80 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .76 |
| -60 HP TOT | | 0.1 | 15 | 220 | 0.1 | 80 | 4 | | | 8.60 | 5450 | 19 | 3 | | | 11.33 |
| -35+60 IP OX | | 0.1 | 1 | 28 | 0.1 | 19 | 1 | | | 1.90 | 570 | 7 | | | | |
| -35+60 IP TOT | | 0.2 | 10 | 208 | 0.2 | 95 | 1 | | | 8.55 | 1900 | 7 | | | | 5.08 |
| -80C TOT | 870 | 0.3 | 10 | 137 | 1 | 52 | 2 | 1 | | 2.90 | 619 | 12 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= TORRENT TURBULENCE= HIGH GRADIENT= EXTREME
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN GREY
 SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE EXOTIC TILL

| | | | | | | | | | | | | | | | | | |
|---------------------|---|--|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|-----------------------------|
| SEDIMENT LOTS(>50%) | 3 | | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| MODERATE(10-50%) | 2 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | SEDIMENT SORTING = MODERATE |
| LITTLE(<10%) | 1 | | | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = NONE |
| NONE | 0 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.5KG
 BASIN AREA = 11.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0080 *
 * * *

EXG33

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 462400E -----
 -NORTHNG 804500N
 NTS- 105H05 G

DATE SAMPLED: 01JUL81
 SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0081 *
 * * *

SAMPLE 81G0081 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.02 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .14 |
| -60 HN TOT | NSS | 0.2 | 10 | 50 | 0.2 | 30 | 2 | NSS | NSS | 1.60 | 510 | 9 | NSS | < | 10 | 1.13 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 13.82 |
| -60 HP TOT | | 0.1 | 4 | 220 | 0.1 | 22 | 2 | | | 7.00 | 2600 | 6 | 1 | | | 4.90 |
| -35+60 IP OX | | 0.1 | 6 | 61 | 0.1 | 10 | 1 | | | 1.28 | 920 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 9 | 160 | 0.1 | 28 | 1 | | | 5.20 | 1600 | 7 | | | | 28.51 |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDERING SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|--|--|
| ----- | MODERATE(10-50%) | 2 | | | | | X | X | X | X | X | X | X | X | X | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = MODERATE
 DECAYED ORGANICS = HIGH
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.9KG
 BASIN AREA = 5.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0081 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 459500E -----
 -NORTHNG 800600N
 NTS- 105HC5 G

DATE SAMPLED: 21JUN81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0082 *
 * * *

SAMPLE 81G0082 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .48 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 18500 | 0.2 | 2 | 36 | 0.2 | 34 | 2 | 2 | 4 | 1.50 | 240 | 28 | 0.8 | | 360 | 23.72 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .45 |
| -60 HP TOT | | 0.1 | 8 | 380 | 0.1 | 125 | 6 | | | 8.10 | 1980 | 20 | 4 | | | 2.66 |
| -35+60 IP OX | | 0.1 | 1 | 24 | 0.1 | 10 | 1 | | | 1.25 | 830 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 165 | 0.1 | 49 | 2 | | | 8.45 | 1600 | 9 | | | | 3.21 |
| -80C TOT | 1200 | 0.2 | 7 | 95 | 0.4 | 43 | 3 | 1 | | 3.30 | 1524 | 10 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.6M |
| ----- | MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | | | | | | | DECAYED ORGANICS = NONE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= NO SAMPLE-STANDARD
 ----- WEIGHT= 8.2KG
 BASIN AREA = 6.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0082 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT
----- -EASTING 459400E -----
-NORTHNG 800200N
NTS- 105H05

DATE SAMPLED: 21JUN81
SAMPLERS : NM/

* * *
* SAMPLE * 81G0083 *
* * *

SAMPLE 81G0083 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .08 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | 2600 | 0.4 | 2 | 26 | 0.2 | 26 | 2 | 2 | 4 | 1.10 | 210 | 4 | 0.4 | 1730 | | 6.32 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.17 |
| -60 HP TOT | | 0.1 | 1 | 110 | 0.1 | 57 | 2 | | | 2.05 | 635 | 3 | 2 | | | 2.58 |
| -35+60 IP OX | | 0.1 | 1 | 12 | 0.1 | 4 | 1 | | | .75 | 310 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 53 | 0.1 | 18 | 2 | | | 3.90 | 750 | 3 | | | | 26.88 |
| -80C TOT | 270 | 0.3 | 6 | 94 | 0.6 | 33 | 2 | 1 | | 2.80 | 1106 | 7 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | MODERATE | MODERATE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.2KG
BASIN AREA = 8.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0083 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 459700E -----
 -NORTHNG 795000N
 NTS- 105H05

DATE SAMPLED: 21JUN81
 SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0084 *
 * * *

SAMPLE 81G0084 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .45 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 12000 | 0.2 | 2 | 26 | 0.2 | 16 | 2 | 2 | 12 | .90 | 120 | 4 | 0.4 | < | 10 | 7.79 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.11 |
| -60 HP TOT | | 1.2 | 14 | 300 | 0.2 | 38 | 4 | | | 5.64 | 1560 | 10 | 0.4 | | | .46 |
| -35+60 IP OX | | 0.1 | 1 | 26 | 0.1 | 5 | 1 | | | 1.00 | 220 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 3 | 118 | 0.7 | 26 | 2 | | | 5.35 | 810 | 7 | | | | 8.19 |
| -80C TOT | 690 | 0.4 | 13 | 110 | 0.9 | 54 | 4 | 1 | | 3.60 | 937 | 10 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|--|------|------|--|--|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.9M |
| ----- | MODERATE(10-50%) | 2 | | X | X | X | X | | | | | | | | | | SEDIMENT SORTING = GOOD |
| | LITTLE(<10%) | 1 | X | X | X | X | X | | | X | | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | | | X | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | | SILT | CLAY | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 8.6KG
 BASIN AREA = 10.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0084 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 459100E -----
-NORTHNG 791400N G
NTS- 105H05

DATE SAMPLED: 21JUN81
SAMPLERS : DC/

* * *
* SAMPLE * 81G0085 *
* * *

SAMPLE 81G0085 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.80 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | 10000 | 1.6 | 140 | 64 | 0.2 | 200 | 2 | 60 | 4 | 4.20 | 180 | 58 | 1.6 | < | 10 | 2.83 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.89 |
| -60 HP TOT | | 0.6 | 310 | 500 | 0.2 | 390 | 6 | | | 26.00 | 2540 | 230 | 9 | | | 1.12 |
| -35+60 IP OX | | 0.1 | 20 | 24 | 0.1 | 10 | 1 | | | 1.70 | 340 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 50 | 340 | 0.1 | 85 | 2 | | | 13.00 | 950 | 39 | | | | 11.97 |
| -80C TOT | 190 | 0.3 | 25 | 80 | 0.2 | 28 | 1 | 1 | | 2.60 | 545 | 8 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | POOR | NONE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.2KG
BASIN AREA = 10.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0085 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
----- -EASTING 457500E -----
-NORTHNG 785000N
NTS- 105H04

SAMPLERS : NM/

* * *
* SAMPLE * 81G0087 *
* * *

SAMPLE 81G0087 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .15 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | >50000 | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < 10 | | 1.27 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .16 |
| -60 HP TOT | | 0.3 | 78 | 1650 | 3.9 | 270 | 18 | | | 26.10 | 6000 | 210 | | | | .43 |
| -35+60 IP OX | | 0.2 | 10 | 730 | 3.4 | 80 | 2 | | | 6.20 | 5200 | 64 | | | | |
| -35+60 IP TOT | | 0.5 | 36 | 2200 | 5.7 | 400 | 27 | | | 22.20 | 5550 | 209 | | | | .86 |
| -80C TOT | 1150 | 1.4 | 6 | 1269 | 7.1 | 103 | 19 | 1 | | 12.60 | 2316 | 141 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= HEAVY CONTAMINATION = NONE
FE HYDROXIDES/RUST

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|------------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.3M |
| ----- | MODERATE(10-50%) | 2 | | X | X | | | | | | | | | | | | SEDIMENT SORTING = VERY POOR |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.7KG
BASIN AREA = 2.0KM**2

NTS-105H04

* * *
* SAMPLE * 81G0087 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
 ----- -EASTING 456300E -----
 -NORTHNG 787500N
 NTS- 105H04 G

SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0088 *
 * * *

SAMPLE 81G0088 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 6.22 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .08 |
| -60 HN TOT | 6600 | 0.2 | 112 | 44 | 0.2 | 18 | 2 | 14 | 4 | 1.25 | 170 | 6 | 1.6 | | 3140 | 3.16 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .77 |
| -60 HP TOT | | 0.1 | 5 | 82 | 0.1 | 15 | 1 | | | 1.63 | 450 | 4 | 0.2 | | | 15.33 |
| -35+60 IP OX | | 0.1 | 1 | 32 | 0.1 | 8 | 1 | | | .90 | 175 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 6 | 110 | 0.1 | 27 | 1 | | | 4.20 | 550 | 9 | | | | 5.60 |
| -80C TOT | 210 | 0.3 | 10 | 109 | 0.2 | 26 | 2 | 1 | | 2.80 | 516 | 8 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= STEEP
 ----- DEPTH= .0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= NOT RECORDED STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|--------------------------|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|---|---------------------------|
| SEDIMENT LOTS(>50%) 3 | | | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.6M |
| ----- MODERATE(10-50%) 2 | X | X | X | | | | | | | | | | | | | | SEDIMENT SORTING = GOOD |
| LITTLE(<10%) 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| NONE 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 6.8KG
 BASIN AREA = 5.0KM**2

NTS-105H04

 * * *
 * SAMPLE * 81G0088 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
----- -EASTING 455500E -----
-NORTHNG 788000N
NTS- 105H04

SAMPLERS : NP/

* * *
* SAMPLE * 81G0089 *
* * *

SAMPLE 81G0089 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .54 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 15000 | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < 10 | | 1.20 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.04 |
| -60 HP TOT | | 0.1 | 3 | 220 | 0.1 | 16 | 26 | | | 2.72 | 970 | 5 | 0.2 | | | 2.40 |
| -35+60 IP OX | | 0.1 | 2 | 32 | 0.2 | 5 | 1 | | | .95 | 135 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 7 | 160 | 0.4 | 26 | 1 | | | 5.00 | 850 | 7 | | | | 7.19 |
| -80C TOT | 300 | 0.1 | 14 | 123 | 1 | 32 | 1 | 1 | | 3.10 | 1047 | 8 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BAFFLED BOTTOM STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = PROBABLE EXOTIC TILL

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | VERY POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 3.6KG
BASIN AREA = 4.0KM**2

NTS-105H04

* * *
* SAMPLE * 81G0089 *
* * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 455300E
-NORTHNG 787800N
NTS- 105H04

PROJECT

G

DATE SAMPLED: 21JUN81
SAMPLERS : NP/

* * *
* SAMPLE * 81G0090 *
* * *

SAMPLE 81G0090 ----- ASSAY RESULTS -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .02 |
| -60 HN TOT | | | | | | | | | | | | | | | | .01 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .02 |
| -60 HP TOT | | NSS | NSS | NSS | NSS | NSS | NSS | | | NSS | NSS | NSS | NSS | | | .07 |
| -35+60 IP OX | | 0.1 | 10 | 60 | 0.1 | 20 | 1 | | | 1.40 | 280 | 10 | | | | |
| -35+60 IP TOT | | 0.3 | 4 | 320 | 0.2 | 16 | 2 | | | 11.00 | 1780 | 16 | | | | .26 |
| -80C TOT | 510 | 0.4 | 7 | 86 | 0.4 | 30 | 2 | 1 | | 2.30 | 1065 | 14 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.7M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | |
|------------------------|------------|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|--|
| ----- MODERATE(10-50%) | 2 | | | X | X | X | | | | | | | | | | |
| LITTLE(<10%) | 1 | | | X | X | X | X | X | X | | | | | | | |
| NONE | 0 | X | X | X | X | X | X | X | X | | | | | | | |
| | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
 SEDIMENT SORTING = MODERATE
 DECAYED ORGANICS = HIGH
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 4.5KG
BASIN AREA = 2.0KM**2

NTS-105H04

* * *
* SAMPLE * 81G0090 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
-EASTING 459200E
-NORTHNG 781000N
NTS- 105H04

SAMPLERS : DC/

* * *
* SAMPLE * 81G0091 *
* * *

SAMPLE 81G0091 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP CX, IP TOT, and TOT.

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN
SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= VARIABLE SLIGHT MN HYDROXIDES/BLACK
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = MODERATE
DECAYED ORGANICS = NONE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 11.4KG
BASIN AREA = 3.0KM**2

NTS-105H04

* * *
* SAMPLE * 81G0091 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
-EASTING 460400E SAMPLERS : NM/
-NORTHNG 777800N G
NTS- 105H04

* * *
* SAMPLE * 81G0092 *
* * *

SAMPLE 81G0092 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, TOT.

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= TAN

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
CONTAMINATION = NONE

Table with columns: SEDIMENT, LOTS(>50%), MODERATE(10-50%), LITTLE(<10%), NONE, BOULDERS, COBBLES, PEBBLES, GRANULES, SAND, SILT, CLAY. Contains 'X' marks for presence.

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = MODERATE
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 8.6KG
BASIN AREA = 5.0KM**2

* * *
* SAMPLE * 81G0092 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 449600E -----
 -NORTHNG 781200N
 NTS- 105H04 G

DATE SAMPLED: 21JUN81
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0093 *
 * * *

SAMPLE
 81G0093

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .29 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | NSS | 0.2 | 10 | 100 | 0.2 | 40 | 2 | NSS | NSS | 1.80 | 450 | 20 | NSS | < 10 | | 1.14 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .08 |
| -60 HP TOT | | 0.1 | 20 | 220 | 0.6 | 19 | 3 | | | 7.80 | 2280 | 20 | 2.8 | | | 3.73 |
| -35+60 IP OX | | NSS | NSS | NSS | 0.1 | NSS | NSS | | | NSS | NSS | NSS | | | | |
| -35+60 IP TOT | | NSS | NSS | NSS | NSS | NSS | NSS | | | NSS | NSS | NSS | NSS | | | .08 |
| -80C TOT | 470 | 0.5 | 15 | 356 | 0.8 | 33 | 2 | 1 | | 3.00 | 1165 | 43 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= BRAID/MEANDR SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= MODERATE FE HYDROXIDES/RUST
 CONTAMINATION = NCNE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | X | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | X | X | X | | | | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | | X | X | X | X | X | X | X | | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 7.7KG
 BASIN AREA = 7.0KM**2

NTS-105H04

 * * *
 * SAMPLE * 81G0093 *
 * * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 453700E -----
 -NORTHNG 782300N
 NTS- 105H04

DATE SAMPLED: 21JUN81
 SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0094 *
 * * *

SAMPLE 81G0094 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .99 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .11 |
| -60 HN TOT | >50000 | 0.4 | 68 | 62 | 0.2 | 58 | 2 | 30 | 28 | 1.70 | 270 | 8 | 1.6 | < | 10 | 2.92 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.76 |
| -60 HP TOT | | 0.1 | 22 | 170 | 0.1 | 45 | 4 | | | 9.30 | 1900 | 9 | 4.2 | | | 6.03 |
| -35+60 IP OX | | 0.1 | 3 | 30 | 0.1 | 15 | 1 | | | 1.10 | 260 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 7 | 100 | 0.1 | 42 | 1 | | | 5.75 | 820 | 17 | | | | 5.83 |
| -80C TOT | 560 | 0.4 | 11 | 87 | 0.2 | 48 | 2 | 1 | | 2.30 | 481 | 13 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= VARIABLE MODERATE FE, HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X |
| | | | X | X | X | X | X | X | X | X | X |

MAX. BOULDER SIZE= 1.2M
 SEDIMENT SORTING = MODERATE
 DECAYED ORGANICS = MODERATE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 7.3KG
 BASIN AREA = 12.0KM**2

NTS-105H04

 * * *
 * SAMPLE * 81G0094 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
-EASTING 453700E -SAMPLERS : CH/
-NORTHNG 782000N G
NTS- 105H04

* * *
* SAMPLE * 81G0095 *
* * *

SAMPLE 81G0095 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include tests like -60 HM TOT, -35+60 IM TOT, etc.

STREAM WIDTH= 1.2M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) .3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = MODERATE
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 7.7KG
BASIN AREA = 5.0KM**2

NTS-105H04

* * *
* SAMPLE * 81G0095 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
----- -EASTING 450000E -----
-NORTHNG 790500N
NTS- 105H04

SAMPLERS : NP/

* * *
* SAMPLE * 81G0096 *
* * *

SAMPLE 81G0096 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 3.23 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .33 |
| -60 HN TOT | 4600 | 0.6 | 16 | 60 | 0.2 | 20 | 2 | 65 | 20 | 2.40 | 405 | 4 | 0.8 | | 4070 | 3.05 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 16.36 |
| -60 HP TOT | | 0.1 | 18 | 215 | 0.5 | 32 | 3 | | | 9.00 | 4380 | 15 | 2.6 | | | 11.08 |
| -35+60 IP OX | | 0.1 | 2 | 24 | 0.1 | 7 | 1 | | | .95 | 215 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 10 | 172 | 0.2 | 29 | 1 | | | 7.50 | 1100 | 14 | | | | 24.13 |
| -80C TOT | 340 | 0.3 | 11 | 127 | 0.4 | 37 | 2 | 1 | | 2.60 | 609 | 13 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | | X | X | X | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | | | X | | | | | | | |
| | NONE | 0 | X | X | X | X | X | | | X | X | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.1KG
BASIN AREA = 16.0KM**2

NTS-105H04

* * *
* SAMPLE * 81G0096 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 447400E -----
 -NORTHNG 775600N
 NTS- 105H04

DATE SAMPLED: 21JUN81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0097 *
 * * *

SAMPLE 81G0097 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | < .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | | | | | | | | | | | | | | | | .01 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .30 |
| -60 HP TOT | | NSS | NSS | NSS | NSS | NSS | NSS | | | NSS | NSS | NSS | NSS | | | < .01 |
| -35+60 IP OX | | 0.1 | 14 | 236 | 0.1 | 32 | 1 | | | 1.80 | 710 | 20 | | | | |
| -35+60 IP TOT | | | | | | | | | | | | | | | | .37 |
| -80C TOT | 150 | 0.4 | 27 | 281 | 0.9 | 58 | 4 | 1 | | 2.20 | 844 | 20 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDERING SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | X | X | X | X | | | | | | | | | |
| | LITTLE(<10%) | 1 | | X | X | X | X | | | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
 SEDIMENT SORTING = MODERATE
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.0KG
 BASIN AREA = 9.0KM**2

NTS-105H04

 * * *
 * SAMPLE * 81G0097 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
-EASTING 447100E SAMPLERS : NP/
-NORTHNG 773600N G
NTS- 105H04

* * *
* SAMPLE * 81G0098 *
* * *

SAMPLE 81G0098 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include tests like -60 HM TOT, -35+60 IM TOT, etc.

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3
MODERATE(10-50%) 2
LITTLE(<10%) 1
NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = MODERATE
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 7.3KG
BASIN AREA = 2.0KM**2

NTS-105H04

* * *
* SAMPLE * 81G0098 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
 ----- -EASTING 447900E -----
 -NORTHNG 770400N
 NTS- 105H04

SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0099 *
 * * *

SAMPLE 81G0099 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .76 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 700 | 0.4 | 58 | 40 | 0.2 | 32 | 6 | 190 | 8 | 4.50 | 600 | 46 | 1.6 | | 190 | 8.03 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 23.89 |
| -60 HP TOT | | 0.1 | 68 | 80 | 0.1 | 70 | 3 | | | 9.95 | 6100 | 46 | 3.4 | | | 17.16 |
| -35+60 IP OX | | 0.1 | 6 | 14 | 0.1 | 6 | 1 | | | .70 | 100 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 14 | 60 | 0.1 | 14 | 1 | | | 3.20 | 590 | 7 | | | | 143.16 |
| -80C TOT | 40 | 0.1 | 40 | 38 | 0.4 | 12 | 1 | 1 | | 1.50 | 310 | 7 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.9M |
| ----- | MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 9.5KG
 BASIN AREA = 16.0KM**2

NTS-105H04

 * * *
 * SAMPLE * 81G0099 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
-EASTING 453500E -NORTHNG 764600N NTS- 105H04

SAMPLERS : DC/

* * *
* SAMPLE * 81G0100 *
* * *

SAMPLE 81G0100 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, and TOT.

STREAM WIDTH= 1.2M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
DEPTH= 0.2M
PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

Table with columns: SEDIMENT (LOTS(>50%), MODERATE(10-50%), LITTLE(<10%), NONE), BOULDERS, COBBLES, PEBBLES, GRANULES, SAND, SILT, CLAY, MAX. BOULDER SIZE, SEDIMENT SORTING, DECAYED ORGANICS, GJ-SORTING PARAMETER, GJ-COARSENESS PARAMETER.

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 7.7KG
BASIN AREA = 6.0KM**2

NTS-105H04

* * *
* SAMPLE * 81G0100 *
* * *

EX033

H E A V Y M I N E R A L S

2CMAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
----- -EASTING 458000E -----
-NORTHNG 766500N
NTS- 105H04

SAMPLERS : NM/

* * *
* SAMPLE * 81G0101 *
* * *

SAMPLE 81G0101 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .78 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 950 | 0.2 | 126 | 44 | 0.2 | 24 | 4 | 30 | 8 | 2.90 | 430 | 6 | 0.4 | | 30 | 4.09 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.63 |
| -60 HP TOT | | 0.1 | 76 | 98 | 0.1 | 53 | 19 | | | 9.10 | 5100 | 29 | 3 | | | 10.20 |
| -35+60 IP OX | | 0.1 | 7 | 13 | 0.1 | 4 | 1 | | | .80 | 135 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 29 | 76 | 0.1 | 15 | 1 | | | 3.75 | 705 | 12 | | | | 17.33 |
| -80C TOT | 110 | 0.1 | 13 | 49 | 0.2 | 10 | 1 | 1 | | 1.40 | 331 | 6 | | | | |

STREAM WIDTH= 3.6M WATER LEVEL= NORMAL FLOW RATE= TORRENT TURBULENCE= HIGH GRADIENT= STEEP
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= TAN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= SLIGHT ORGANIC SLIME
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | MAX. BOULDER SIZE= 1.5M |
| ----- | MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.1KG
BASIN AREA = 9.0KM**2

NTS-105H04

* * *
* SAMPLE * 81G0101 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
 ----- -EASTING 458300E -----
 -NORTHNG 766800N
 NTS- 105H04 G

DATE SAMPLED: 21JUN81
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0102 *
 * * *

SAMPLE 81G0102 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .87 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 600 | 0.4 | 60 | 44 | 0.2 | 18 | 4 | 55 | 84 | 2.75 | 415 | 6 | 0.8 | | 5880 | 3.09 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.25 |
| -60 HP TOT | | 0.1 | 68 | 125 | 0.1 | 45 | 4 | | | 7.70 | 3500 | 25 | 2.4 | | | 8.11 |
| -35+60 IP OX | | 0.1 | 8 | 15 | 0.1 | 3 | 1 | | | .85 | 135 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 17 | 72 | 0.1 | 14 | 1 | | | 3.45 | 610 | 9 | | | | 14.54 |
| -80C TOT | 130 | 0.1 | 10 | 66 | 0.4 | 11 | 1 | 1 | | 1.40 | 402 | 6 | | | | |

STREAM WIDTH= 3.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= HIGH GRADIENT= STEEP
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= TAN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | |
|------------------|------------|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|---|
| MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | | | |
| LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | | |

MAX. BOULDER SIZE= 1.5M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 7.3KG
 BASIN AREA = 12.0KM**2

NTS-105H04

 * * *
 * SAMPLE * 81G0102 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
----- -EASTING 457500E - - - - -
-NORTHNG 773500N G
NTS- 105H04

DATE SAMPLED: 21JUN81
SAMPLERS : NM/

* * * * *
* SAMPLE * 81G0103 *
* * * * *

SAMPLE 81G0103 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .48 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 1250 | 0.4 | 20 | 60 | 0.4 | 18 | 2 | 25 | 4 | 2.50 | 240 | 8 | 0.8 | | 10 | 3.81 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.38 |
| -60 HP TOT | | 0.1 | 30 | 135 | 0.1 | 14 | 2 | | | 12.30 | 1240 | 11 | 3.6 | | | 7.25 |
| -35+60 IP OX | | 0.1 | 3 | 16 | 0.1 | 2 | 1 | | | .45 | 43 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 88 | 0.1 | 8 | 1 | | | 4.05 | 570 | 6 | | | | 11.63 |
| -80C TOT | 320 | 0.3 | 8 | 168 | 1.9 | 23 | 2 | 1 | | 1.40 | 163 | 10 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= SLIGHT ORGANIC SLIME
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | MODERATE | MODERATE | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.7KG
BASIN AREA = 4.0KM**2

NTS-105H04

* * * * *
* SAMPLE * 81G0103 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
 ----- -EASTING 455000E -----
 -NORTHNG 775200N
 NTS- 105H04 G

DATE SAMPLED: 21JUN81
SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0104 *
 * * *

SAMPLE 81G0104 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .29 |
| -35+60 IM TGT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | 800 | 3 | 96 | 46 | 0.2 | 10 | 2 | 30 | 16 | 2.60 | 450 | 4 | 0.8 | | 10 | 4.45 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 22.98 |
| -60 HP TOT | | 0.1 | 26 | 138 | 0.1 | 12 | 3 | | | 4.50 | 3100 | 6 | 1.2 | | | 19.40 |
| -35+60 IP OX | | 0.1 | 4 | 12 | 0.1 | 3 | 1 | | | .35 | 61 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 22 | 32 | 0.2 | 4 | 1 | | | 2.10 | 415 | 6 | | | | 4.10 |
| -80C TOT | 230 | 0.5 | 23 | 117 | 0.4 | 25 | 4 | 1 | | 1.80 | 336 | 18 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= FLOOD FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.3M |
| ----- | MODERATE(10-50%) | 2 | | X | X | X | X | | | | | | | | | | SEDIMENT SORTING = GOOD |
| | LITTLE(<10%) | 1 | X | X | X | X | X | | | X | | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | | | X | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 8.6KG
 BASIN AREA = 4.0KM**2

NTS-105H04

 * * *
 * SAMPLE * 81G0104 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
 ----- -EASTING 453300E ----- SAMPLERS : NP/
 -NORTHNG 776000N G
 NTS- 105H04

 * * *
 * SAMPLE * 81G0105 *
 * * *

SAMPLE 81G0105 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .30 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 2100 | 0.6 | 30 | 100 | 0.2 | 16 | 4 | 45 | NSS | 3.00 | 430 | 10 | NSS | | 11500 | 2.07 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.62 |
| -60 HP TOT | | 0.1 | 28 | 270 | 0.4 | 16 | 2 | | | 5.40 | 3200 | 11 | 1.2 | | | 5.90 |
| -35+60 IP OX | | 0.1 | 2 | 26 | 0.1 | 5 | 1 | | | .60 | 78 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 12 | 120 | 0.2 | 14 | 1 | | | 3.70 | 710 | 11 | | | | 27.69 |
| -80C TOT | 190 | 0.6 | 20 | 164 | 1.3 | 35 | 2 | 1 | | 1.40 | 154 | 18 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= BRAID/MEANDR SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 X X X DECAYED ORGANICS = MODERATE
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 8.2KG
 BASIN AREA = 3.0KM**2

NTS-105H04

 * * *
 * SAMPLE * 81G0105 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
----- -EASTING 453200E -----
-NORTHNG 776300N
NTS- 105H04

SAMPLERS : NP/

* * *
* SAMPLE * 81G0106 *
* * *

SAMPLE 81G0106 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .02 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < 50 | | .29 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .03 |
| -60 HP TOT | | 0.2 | 16 | 320 | 0.4 | 16 | 20 | | | 5.40 | 2320 | 15 | 0.2 | | | .56 |
| -35+60 IP OX | | 0.3 | 4 | 136 | 0.3 | 8 | 2 | | | 2.80 | 1480 | 36 | | | | |
| -35+60 IP TOT | | 0.2 | 4 | 280 | 0.4 | 12 | 2 | | | 6.00 | 2950 | 60 | | | | .45 |
| -80C TOT | 680 | 1 | 12 | 673 | 7.2 | 74 | 5 | 1 | | 3.10 | 1356 | 139 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= STILL GRADIENT= LOW
----- DEPTH= 0.9M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | | | | | | | | | | | | | SEDIMENT SORTING = GOOD |
| | LITTLE(<10%) | 1 | | | | | | | | X | X | | | | | | DECAYED ORGANICS = HIGH |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 0.9KG
BASIN AREA = 11.0KM**2

NTS-105H04

* * *
* SAMPLE * 81G0106 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
-EASTING 457000E
-NORTHNG 775000N
NTS- 105H04

SAMPLERS : DC/

* * *
* SAMPLE * 81G0107 *
* * *

SAMPLE 81G0107 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, HP TOT, IP OX, IP TOT, and -80C TOT.

STREAM WIDTH= 1.8M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= MODERATE
DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X
MODERATE(10-50%) 2 X X
LITTLE(<10%) 1 X X X X X
NONE 0 X X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = NONE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 7.3KG
BASIN AREA = 6.0KM**2

* * *
* SAMPLE * 81G0107 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 455800E
-NORTHNG 775500N
NTS- 105H04

PROJECT

G

DATE SAMPLED: 21JUN81
SAMPLERS : CH/

* * * * *
* SAMPLE * 81G0108 *
* * * * *

SAMPLE
81G0108

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.12 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .02 |
| -60 HN TOT | 19000 | 0.2 | 20 | 70 | 0.4 | 28 | 2 | 75 | NSS | 2.40 | 450 | 8 | NSS | < | 10 | 1.94 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.31 |
| -60 HP TOT | | 0.1 | 35 | 225 | 0.2 | 40 | 2 | | | 9.90 | 2880 | 61 | 5.4 | | | 5.61 |
| -35+60 IP OX | | 0.1 | 3 | 38 | 0.1 | 6 | 1 | | | .80 | 450 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 10 | 126 | 0.1 | 19 | 1 | | | 3.80 | 860 | 24 | | | | 25.26 |
| -80C TOT | 730 | 1.1 | 19 | 392 | 3.3 | 38 | 6 | 1 | | 3.40 | 6878 | 91 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= FLOOD FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
----- DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= BRAIDED SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | | X | | | | X | | X | | | | | | | |
| | LITTLE(<10%) | 1 | | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 6.4KG
BASIN AREA = 24.0KM**2

NTS-105H04

* * * * *
* SAMPLE * 81G0108 *
* * * * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 458000E -----
 -NORTHNG 773800N
 NTS- 105H04 G

DATE SAMPLED: 21JUN81
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0109 *
 * * *

SAMPLE 81G0109 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.33 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .18 |
| -60 HN TOT | 7200 | 0.2 | 86 | 90 | 0.2 | 30 | 2 | 40 | 8 | 4.00 | 570 | 10 | 4 | < | 10 | 3.43 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.77 |
| -60 HP TOT | | 0.1 | 36 | 145 | 0.1 | 21 | 1 | | | 17.00 | 1190 | 19 | 5.2 | | | 11.50 |
| -35+60 IP OX | | 0.1 | 1 | 41 | 0.2 | 5 | 1 | | | .75 | 905 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 11 | 142 | 0.1 | 19 | 1 | | | 4.90 | 1200 | 22 | | | | 12.57 |
| -80C TOT | 440 | 0.3 | 12 | 265 | 1.9 | 26 | 2 | 1 | | 2.20 | 309 | 28 | | | | |

STREAM WIDTH= 3.6M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 1.0M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= MODERATE ORGANIC SLIME
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X |
| | | | X | X | X | X | X | X | X | X | X |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = MODERATE
 DECAYED ORGANICS = MODERATE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 8.6KG
 BASIN AREA = 43.0KM**2

NTS-105H04

 * * *
 * SAMPLE * 81G0109 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 21JUN81
-EASTING 460200E
-NORTHNG 772500N
NTS- 105H04

SAMPLERS : NP/

* * *
* SAMPLE * 81G0110 *
* * *

SAMPLE 81G0110 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include tests like HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, and -80C TOT.

STREAM WIDTH= 3.6M WATER LEVEL= HIGH FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
DEPTH= 0.9M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = MODERATE
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 6.4KG
BASIN AREA = 52.0KM**2

* * *
* SAMPLE * 81G0110 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
 ----- -EASTING 443400E ----- SAMPLERS : CH/
 -NORTHNG 802000N G
 NTS- 105G08

 * * *
 * SAMPLE * 81G0111 *
 * * *

SAMPLE 81G0111 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .40 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 1100 | 0.2 | 4 | 38 | 0.2 | 20 | 4 | 2 | 4 | 3.20 | 390 | 6 | 1.6 | | 470 | 21.17 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.51 |
| -60 HP TOT | | 0.1 | 8 | 60 | 0.1 | 22 | 2 | | | 4.70 | 1650 | 4 | 0.4 | | | 26.81 |
| -35+60 IP OX | | 0.1 | 1 | 24 | 0.1 | 9 | 1 | | | .65 | 305 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 93 | 0.1 | 26 | 1 | | | 4.10 | 760 | 7 | | | | 35.97 |
| -80C TOT | 160 | 0.1 | 8 | 99 | 1 | 39 | 1 | 1 | | 2.00 | 640 | 8 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= VARIABLE HEAVY ORGANIC SLIME
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | MODERATE | MODERATE | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.5KG
 BASIN AREA = 111.0KM**2

NTS-105G08

 * * *
 * SAMPLE * 81G0111 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 441400E -----
 -NORTHNG 808900N
 NTS- 105G08

DATE SAMPLED: 25JUN81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0112 *
 * * *

SAMPLE 81G0112 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .02 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < 20 | | .61 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 31.81 |
| -60 HP TOT | | | | | | | | | | | | | | | | 3.64 |
| -35+60 IP OX | | 0.1 | 1 | 7 | 0.1 | 13 | 1 | | | .40 | 69 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 60 | 0.1 | 46 | 1 | | | 4.35 | 670 | 3 | | | | 349.72 |
| -80C TOT | 60 | 0.1 | 4 | 53 | 0.8 | 77 | 1 | 1 | | 2.40 | 410 | 6 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.0M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN GREEN

SAMPLE SITE= SIDE BAR STREAM TYPE= BRAIDED SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | POOR | LOW | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.5KG
 BASIN AREA = 4.0KM**2

NTS-105G08

 * * *
 * SAMPLE * 81G0112 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
 ----- -EASTING 4411G0E ----- SAMPLERS : DC/
 -NORTHNG 808900N G
 NTS- 105G08

 * * *
 * SAMPLE * 81G0113 *
 * * *

SAMPLE 81G0113 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|--------|
| -60 HM TOT | | | | | | | | | | | | | | | | .62 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | 300 | 0.2 | 4 | 40 | 0.2 | 20 | 2 | 110 | 4 | 3.75 | 400 | 6 | 0.8 | | 7880 | 17.53 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 16.40 |
| -60 HP TOT | | 0.1 | 5 | 54 | 0.1 | 36 | 3 | | | 7.35 | 1530 | 4 | 0.2 | | | 20.99 |
| -35+60 IP OX | | 0.1 | 1 | 19 | 0.1 | 9 | 1 | | | .75 | 320 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 77 | 0.1 | 25 | 1 | | | 4.85 | 870 | 4 | | | | 271.78 |
| -80C TOT | 630 | 0.1 | 3 | 125 | 1 | 38 | 2 | 1 | | 4.10 | 2234 | 16 | | | | |

STREAM WIDTH= 0.3M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDERING SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= VARIABLE MODERATE FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | POOR | LOW | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 11.4KG
 BASIN AREA = 2.0KM**2

NTS-105G08

 * * *
 * SAMPLE * 81G0113 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 438400E -----
 -NORTHNG 809500N
 NTS- 105G08

DATE SAMPLED: 25JUN81
 SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0114 *
 * * *

SAMPLE 81G0114 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 5.50 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HM TOT | 8900 | 3.2 | 184 | 98 | 0.6 | 20 | 6 | 2400 | 100 | 2.75 | 300 | 10 | 1.6 | 16200 | | 5.78 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 16.43 |
| -60 HP TOT | | 0.1 | 22 | 260 | 0.3 | 29 | 2 | | | 7.90 | 2040 | 10 | 1.2 | | | 17.71 |
| -35+60 IP OX | | 0.1 | 6 | 51 | 0.3 | 6 | 1 | | | 1.15 | 140 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 15 | 218 | 0.8 | 26 | 2 | | | 6.20 | 870 | 11 | | | | 13.64 |
| -80C TOT | 350 | 0.4 | 18 | 309 | 2 | 32 | 2 | 1 | | 1.80 | 331 | 12 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= HEAVY ORGANIC SLIME
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | MODERATE | HIGH | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.9KG
 BASIN AREA = 3.0KM**2

 * * *
 * SAMPLE * 81G0114 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
----- -EASTING 439100E - - - - -
-NORTHNG 811500N G
NTS- 105G08

DATE SAMPLED: 25JUN81
SAMPLERS : NP/

* * *
* SAMPLE * 81G0115 *
* * *

SAMPLE 81G0115 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|--------|
| -60 HM TOT | | | | | | | | | | | | | | | | 7.11 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .12 |
| -60 HN TOT | 25000 | 0.2 | 20 | 92 | 0.2 | 40 | 2 | 640 | 4 | 2.90 | 285 | 6 | 2.4 | | 10 | 18.58 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 10.63 |
| -60 HP TOT | | 0.1 | 19 | 175 | 0.7 | 36 | 3 | | | 6.00 | 1730 | 10 | 1.4 | | | 46.71 |
| -35+60 IP OX | | 0.1 | 4 | 73 | 0.2 | 6 | 1 | | | .75 | 100 | 3 | | | | |
| -35+60 IP TOT | | 0.2 | 11 | 235 | 0.6 | 34 | 1 | | | 4.80 | 690 | 7 | | | | 104.57 |
| -80C TOT | 270 | 0.2 | 16 | 296 | 1.2 | 45 | 1 | 1 | | 2.30 | 480 | 14 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 X X X X DECAYED ORGANICS = NONE
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 12.3KG
BASIN AREA = 8.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0115 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 437400E
-NORTHNG 813500N
NTS- 105G08

PROJECT

G

DATE SAMPLED: 25JUN81
SAMPLERS : NM/

* * *
* SAMPLE * 81G0116 *
* * *

SAMPLE
81G0116

A S S A Y

R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.40 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | >50000 | 1 | 10 | 74 | 0.2 | 62 | 4 | 110 | 20 | 2.65 | 345 | 6 | 0.8 | < | 10 | 3.81 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .80 |
| -60 HP TOT | | 0.1 | 10 | 125 | 0.2 | 40 | 2 | | | 6.35 | 1280 | 7 | 0.6 | | | 13.70 |
| -35+60 IP CX | | 0.1 | 1 | 47 | 0.1 | 12 | 1 | | | .80 | 210 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 3 | 160 | 0.2 | 37 | 1 | | | 5.60 | 900 | 9 | | | | 22.18 |
| -80C TOT | 480 | 0.3 | 9 | 266 | 37 | 60 | 1 | 1 | | 2.30 | 889 | 10 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDERING SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 MODERATE(10-50%) 2 X X
 LITTLE(<10%) 1 X X X X X
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 SEDIMENT SORTING = VERY POOR
 DECAYED ORGANICS = MODERATE
 GJ-SORTING-PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 11.4KG
BASIN AREA = 5.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0116 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION. UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
-EASTING 434500E -NORTHNG 814100N NTS- 105G08

SAMPLERS : CH/

* * *
* SAMPLE * 81G0117 *
* * *

SAMPLE 81G0117

A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, TOT.

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= MODERATE
DEPTH= 0.2M PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKGREY

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M SEDIMENT SORTING = POOR DECAYED ORGANICS = MODERATE GJ-SORTING PARAMETER = GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE WEIGHT= 10.5KG BASIN AREA = 3.0KM**2

* * *
* SAMPLE * 81G0117 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
----- -EASTING 432200E -SAMPLERS : DC/
-NORTHNG 816000N G
NTS- 105G08

* * *
* SAMPLE * 81G0118 *
* * *

SAMPLE 81G0118 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 6.42 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 18000 | 0.2 | 46 | 70 | 1.2 | 210 | 4 | 270 | 72 | 2.75 | 530 | 12 | 2.4 | < 10 | | 5.13 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 5.64 |
| -60 HP TOT | | 0.1 | 10 | 350 | 0.7 | 14 | 3 | | | 7.05 | 5100 | 9 | 0.8 | | | 18.86 |
| -35+60 IP OX | | 0.1 | 1 | 113 | 0.2 | 6 | 1 | | | 1.50 | 430 | 20 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 365 | 1.2 | 17 | 1 | | | 6.20 | 1200 | 30 | | | | 13.76 |
| -80C TOT | 240 | 0.1 | 6 | 535 | 2 | 10 | 1 | 5 | | 1.60 | 431 | 13 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | X | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | | X | X | X | | | | | | | | | | |
| | LITTLE(<10%) | 1 | | | X | X | X | X | | | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 13.6KG
BASIN AREA = 3.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0118 *
* * *

EX035

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 431400E -----
 -NORTHNG 819900N
 NTS- 105G09

DATE SAMPLED: 25JUN81
 SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0119 *
 * * *

SAMPLE 81G0119 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 13.45 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .43 |
| -60 HN TOT | 18000 | 0.2 | 18 | 110 | 0.2 | 40 | 4 | 450 | 40 | 2.60 | 400 | 8 | 1.6 | | 5460 | 9.38 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 23.22 |
| -60 HP TOT | | 0.1 | 22 | 510 | 0.4 | 46 | 2 | | | 8.90 | 2750 | 15 | 4.8 | | | 14.55 |
| -35+60 IP OX | | 0.1 | 1 | 64 | 0.2 | 7 | 1 | | | 1.10 | 275 | 12 | | | | |
| -35+60 IP TOT | | 0.1 | 4 | 218 | 0.3 | 26 | 1 | | | 5.85 | 940 | 22 | | | | 22.64 |
| -80C TOT | 370 | 0.3 | 9 | 339 | 1.9 | 24 | 4 | 1 | | 2.80 | 1040 | 45 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | X | X | X | X | | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | | | X | X | X | X | | | | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 13.2KG
 BASIN AREA = 7.0KM**2

NTS-105G09

 * * *
 * SAMPLE * 81G0119 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
 ----- -EASTING 437800E -----
 -NORTHNG 821200N G
 NTS- 105G09

DATE SAMPLED: 25JUN81
 SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0121 *
 * * *

SAMPLE 81G0121 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .34 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 2600 | NSS | NSS | NSS | NSS | NSS | NSS | 90 | NSS | NSS | NSS | NSS | NSS | < | 10 | 1.56 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 15.25 |
| -60 HP TOT | | 0.1 | 20 | 360 | 0.1 | 47> | 250 | | | 6.90 | 1650 | 15 | 2 | | | 2.32 |
| -35+60 IP OX | | 0.1 | 1 | 19 | 0.1 | 3 | 1 | | | 1.00 | 155 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 6 | 119 | 0.1 | 20 | 2 | | | 5.05 | 640 | 6 | | | | 15.65 |
| -80C TOT | 320 | 0.2 | 16 | 105 | 1 | 35 | 1 | 1 | | 1.70 | 158 | 6 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= FLOOD FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
 ----- DEPTH= 0.7M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | MODERATE | HIGH | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 5.0KG
 BASIN AREA = 5.0KM**2

NTS-105G09

 * * *
 * SAMPLE * 81G0121 *
 * * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
 ----- -EASTING 438000E -----
 -NORTHNG 819000N
 NTS- 105G09 G

SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0122 *
 * * *

SAMPLE 81G0122 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .54 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .14 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 3770 | .71 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 7.15 |
| -60 HP TOT | | 0.1 | 9 | 240 | 0.3 | 28 | 3 | | | 6.50 | 1380 | 3 | 0.6 | | | 9.19 |
| -35+60 IP OX | | 0.1 | 1 | 30 | 0.1 | 12 | 1 | | | .90 | 155 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 108 | 0.1 | 32 | 2 | | | 5.45 | 785 | 5 | | | | 47.18 |

STREAM WIDTH= 1.2M WATER LEVEL= FLOOD FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | MODERATE | HIGH | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 6.4KG
 BASIN AREA = 5.0KM**2

NTS-105G09

 * * *
 * SAMPLE * 81G0122 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
 ----- -EASTING 438200E -----
 -NORTHNG 818900N
 NTS- 105G09 G

SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0123 *
 * * *

SAMPLE 31G0123 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.24 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | 1.06 |
| -60 HN TOT | 1700 | 0.2 | 14 | 70 | 0.2 | 32 | 2 | NSS | NSS | 3.10 | 410 | 6 | NSS | 2980 | | 1.73 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.41 |
| -60 HP TOT | | 0.1 | 7 | 390 | 0.1 | 33 | 4 | | | 8.15 | 1940 | 4 | 0.8 | | | 10.99 |
| -35+60 IP OX | | 0.1 | 1 | 16 | 0.1 | 7 | 1 | | | .75 | 130 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 89 | 0.1 | 28 | 1 | | | 5.40 | 810 | 4 | | | | 29.90 |
| -80C TOT | 380 | 0.2 | 9 | 93 | 2 | 31 | 1 | 1 | | 2.10 | 651 | 9 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN GREY

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|------------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.3M |
| ----- | MODERATE(10-50%) | 2 | | X | X | X | | | | | | | | | | | SEDIMENT SORTING = VERY POOR |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = HIGH |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 6.8KG
 BASIN AREA = 7.0KM**2

NTS-105G09

 * * *
 * SAMPLE * 81G0123 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
 ----- -EASTING 438600E ----- SAMPLERS : DC/
 -NORTHNG 819600N G
 NTS- 105G09

 * * *
 * SAMPLE * 81G0124 *
 * * *

SAMPLE 81G0124 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .90 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 8400 | 0.2 | 100 | 56 | 0.2 | 36 | 2 | NSS | NSS | 2.65 | 375 | 10 | NSS | < .10 | | 1.95 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.76 |
| -60 HP TOT | | 0.1 | 4 | 145 | 0.1 | 36 | 3 | | | 7.30 | 2000 | 6 | 1 | | | 7.22 |
| -35+60 IP OX | | 0.1 | 1 | 17 | 0.1 | 7 | 1 | | | .80 | 195 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 4 | 96 | 0.1 | 34 | 1 | | | 5.35 | 860 | 7 | | | | 25.83 |
| -80C TOT | 310 | 0.3 | 16 | 111 | 1 | 27 | 1 | 1 | | 1.80 | 466 | 21 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = 0.0 SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE EXOTIC TILL
 CONTAMINATION = POSSIBLE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | X | X | X | X | X | X | X | 0.6M | VERY POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 6.4KG
 BASIN AREA = 6.0KM**2

NTS-105G09

 * * *
 * SAMPLE * 81G0124 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
----- -EASTING 438500E -----
-NORTHNG 820900N G
NTS- 105G09

DATE SAMPLED: 25JUN81
SAMPLERS : NM/

* * *
* SAMPLE * 81G0125 *
* * *

SAMPLE 81G0125 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G. |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.05 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | >50000 | NSS | NSS | NSS | NSS | NSS | NSS | 75 | NSS | NSS | NSS | NSS | NSS | | 1020 | 1.49 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.62 |
| -60 HP TOT | | 0.1 | 17 | 300 | 0.1 | 57 | 7 | | | 6.80 | 1320 | 22 | 3.2 | | | 3.36 |
| -35+60 IP OX | | 0.1 | 2 | 32 | 0.1 | 13 | 1 | | | 1.30 | 215 | 9 | | | | |
| -35+60 IP TOT | | 0.1 | 13 | 162 | 0.2 | 47 | 1 | | | 6.90 | 905 | 16 | | | | 12.94 |
| -80C TOT | 330 | 0.2 | 11 | 67 | 1 | 25 | 1 | 1 | | 1.60 | 229 | 8 | | | | |

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= STEEP
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|------------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.6M |
| ----- | MODERATE(10-50%) | 2 | X | X | | | | | | | | | | | | | SEDIMENT SORTING = VERY POOR |
| | LITTLE(<<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.7KG
BASIN AREA = 21.0KM**2

NTS-105G09

* * *
* SAMPLE * 81G0125 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
 ----- -EASTING 440700E ----- SAMPLERS : CH/
 -NORTHNG 822100N G
 NTS- 105G09

 * * *
 * SAMPLE * 81G0127 *
 * * *

SAMPLE 21G0127 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.92 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 44000 | 0.2 | 12 | 68 | 0.2 | 60 | 2 | 30 | 205 | 2.25 | 290 | 8 | 1.6 | | 110 | 8.94 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 37.07 |
| -60 HP TOT | | 0.1 | 16 | 480 | 0.1 | 51 | 3 | | | 7.85 | 1910 | 7 | 2.6 | | | 8.38 |
| -35+60 IP OX | | 0.1 | 2 | 16 | 0.1 | 6 | 1 | | | .95 | 155 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 6 | 100 | 0.1 | 26 | 1 | | | 4.15 | 550 | 10 | | | | 33.22 |
| -80C TOT | 300 | 0.2 | 12 | 95 | 0.6 | 27 | 2 | 1 | | 1.70 | 288 | 8 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.6M |
| ----- | MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.9KG
 BASIN AREA = 3.0KM**2

NTS-105G09

 * * *
 * SAMPLE * 81G0127 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
----- -EASTING 441800E -----
-NORTHNG 819000N
NTS- 105G09

SAMPLERS : DC/

* * *
* SAMPLE * 81G0128 *
* * *

SAMPLE 81G0128 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.00 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .18 |
| -60 HN TOT | 7100 | 0.2 | 8 | 64 | 0.2 | 88 | 6 | 2 | 4 | 4.75 | 565 | 8 | 0.4 | 670 | | 7.12 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 17.90 |
| -60 HP TOT | | 0.1 | 7 | 210 | 0.1 | 38 | 3 | | | 5.50 | 940 | 5 | 1 | | | 13.54 |
| -35+60 IP OX | | 0.1 | 1 | 15 | 0.1 | 6 | 1 | | | .80 | 110 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 118 | 0.1 | 26 | 1 | | | 4.90 | 700 | 6 | | | | 109.49 |
| -80C TOT | 380 | 0.6 | 17 | 136 | 1 | 72 | 1 | 1 | | 2.60 | 461 | 16 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= MODERATE
----- DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | X | X | X | X | X | X | X | 0.6M | VERY POOR | LOW | | |

SAMPLE STATUS= DUPLICATE
----- WEIGHT= 6.4KG
BASIN AREA = 15.0KM**2

NTS-105G09

* * *
* SAMPLE * 81G0128 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 444000E -----
 -NORTHNG 819500N
 NTS- 105G09

DATE SAMPLED: 26JUN81
 SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0129 *
 * * *

SAMPLE 81G0129 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .87 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 29000 | 0.4 | 22 | 180 | 0.8 | 80 | 4 | 60 | NSS | 2.55 | 450 | 28 | 3 | 1800 | | 2.53 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.21 |
| -60 HP TOT | | 0.1 | 26 | 260 | 0.4 | 57 | 5 | | | 9.20 | 1940 | 24 | 3.2 | | | 3.90 |
| -35+60 IP OX | | 0.1 | 1 | 36 | 0.1 | 12 | 1 | | | 1.60 | 440 | 9 | | | | |
| -35+60 IP TOT | | 0.1 | 12 | 200 | 0.4 | 46 | 1 | | | 7.40 | 1150 | 15 | | | | 4.44 |
| -80C TOT | 310 | 0.2 | 12 | 91 | 0.6 | 28 | 1 | 1 | | 1.60 | 510 | 10 | | | | |

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | X | X | X | X | X | X | X | X | X | X | X | X | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | | | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 11.8KG
 BASIN AREA = 27.0KM**2

NTS-105G09

 * * *
 * SAMPLE * 81G0129 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 01JUL81
----- -EASTING 446500E -----
-NORTHNG 823000N
NTS- 105G09

SAMPLERS : CH/

* * *
* SAMPLE * 81G0130 *
* * *

SAMPLE 81G0130 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|------|
| -60 HM TOT | | | | | | | | | | | | | | | | .43 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .16 |
| -60 HN TOT | NSS | 0.4 | 18 | 1200 | 27.8 | 118 | 2 | NSS | NSS | 2.25 | 385 | 12 | NSS | | 80 | 1.67 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 6.36 |
| -60 HP TOT | | 0.1 | 17 | 250 | 0.2 | 38 | 4 | | | 7.20 | 1720 | 11 | 1.2 | | | 2.60 |
| -35+60 IP OX | | 0.1 | 1 | 43 | 0.1 | 7 | 1 | | | .90 | 150 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 215 | 0.3 | 27 | 1 | | | 6.85 | 925 | 7 | | | | 7.26 |
| -80C TOT | 270 | 0.1 | 11 | 112 | 1 | 22 | 1 | 1 | | 1.60 | 296 | 6 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BLACK/DARKGREY
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 1.2M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.0KG
BASIN AREA = 37.0KM**2

NTS-105G09

* * *
* SAMPLE * 81G0130 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 01JUL81
----- -EASTING 446500E - - - - -
-NORTHNG 816000N G
NTS- 105G08

DATE SAMPLED: 01JUL81
SAMPLERS : CH/

* * *
* SAMPLE * 81G0131 *
* * *

SAMPLE 81G0131 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .25 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < | 50 | .26 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.87 |
| -60 HP TOT | | 0.1 | 8 | 510 | 0.1 | 36 | 4 | | | 5.50 | 1640 | 9 | 0.4 | | | 1.29 |
| -35+60 IP OX | | 0.1 | 1 | 20 | 0.1 | 6 | 1 | | | .95 | 185 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 135 | 0.3 | 29 | 2 | | | 6.50 | 950 | 7 | | | | 19.00 |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.9M | POOR | HIGH | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 5.9KG
BASIN AREA = 5.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0131 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 01JUL81
----- -EASTING 446400E -----
-NORTHNG 815500N
NTS- 105G08

SAMPLERS : CH/

* * *
* SAMPLE * 81G0132 *
* * *

SAMPLE 81G0132 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.09 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .09 |
| -60 HN TOT | 2900 | 0.2 | 8 | 100 | 0.2 | 40 | 4 | 40 | 4 | 4.55 | 660 | 6 | 1.6 | < | 10 | 15.23 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 7.59 |
| -60 HP TOT | | 0.1 | 10 | 170 | 0.1 | 50 | 5 | | | 7.40 | 1280 | 7 | 1 | | | 19.71 |
| -35+60 IP OX | | 0.1 | 2 | 28 | 0.1 | 14 | 1 | | | .85 | 130 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 118 | 0.1 | 45 | 1 | | | 6.15 | 915 | 7 | | | | 88.10 |
| -80C TOT | 230 | 0.1 | 15 | 136 | 2 | 48 | 1 | 1 | | 3.20 | 911 | 18 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR=

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= VARIABLE SLIGHT ORGANIC SLIME
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | | | | | | | | | | | 0.6M | MODERATE | HIGH | | |
| | | 2 | | | X | X | X | | | | | | | | | |
| | | 1 | | | X | X | X | X | X | X | | | | | | |
| | | 0 | | | X | X | X | X | X | X | | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.9KG
BASIN AREA = 4.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0132 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT
 ----- -EASTING 447300E -----
 -NORTHNG. 813100N G
 NTS- 105H05

DATE SAMPLED: 01JUL81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0133 *
 * * *

SAMPLE 81G0133 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .33 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 950 | 0.2 | 4 | 96 | 0.2 | 40 | 2 | 8 | 4 | 4.40 | 720 | 8 | 0.8 | | 550 | 7.55 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 8.48 |
| -60 HP TOT | | 0.1 | 20 | 200 | 0.1 | 39 | 4 | | | 6.80 | 1150 | 3 | 1 | | | 15.57 |
| -35+60 IP OX | | 0.1 | 1 | 13 | 0.1 | 6 | 1 | | | .60 | 90 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 90 | 0.1 | 28 | 2 | | | 5.95 | 860 | 6 | | | | 37.66 |
| -80C TOT | 130 | 0.1 | 10 | 90 | 1 | 39 | 2 | 1 | | 3.80 | 653 | 16 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = VERY POOR
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.9KG
 BASIN AREA = 3.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0133 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 448000E
-NORTHNG 812500N
NTS- 105H05

PROJECT

G

DATE SAMPLED: 01JUL81
SAMPLERS : NP/

* * *
* SAMPLE * 81G0134 *
* * *

SAMPLE
81G0134

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .74 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | 20200 | | .74 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.16 |
| -60 HP TOT | | 0.1 | 18 | 430 | 0.4 | 75 | 4 | | | 11.00 | 1920 | 38 | 6 | | | 2.10 |
| -35+60 IP OX | | 0.1 | 3 | 26 | 0.1 | 12 | 1 | | | 1.15 | 555 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 11 | 185 | 0.6 | 52 | 2 | | | 8.30 | 1400 | 19 | | | | 9.49 |
| -80C TOT | 650 | 0.3 | 13 | 106 | 1 | 32 | 2 | 1 | | 2.30 | 2645 | 14 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BAFFLED BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = POSSIBLE EXOTIC TILL

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|--|--|--|------------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | | | | | | | | | | | | | SEDIMENT SORTING = VERY POOR |
| | LITTLE(<10%) | 1 | | | | X | X | X | X | X | X | X | X | | | | DECAYED ORGANICS = HIGH |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.2KG
BASIN AREA = 6.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0134 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 447600E -----
-NORTHNG 811900N
NTS- 105H05

DATE SAMPLED: 01JUL81
SAMPLERS : NM/

* * *
* SAMPLE * 81G0135 *
* * *

SAMPLE 81G0135 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .96 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .08 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 34500 | .91 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.23 |
| -60 HP TOT | | 0.1 | 28 | 500 | 0.4 | 53 | 4 | | | 9.00 | 1620 | 25 | 4.8 | | | 2.33 |
| -35+60 IP OX | | 0.1 | 2 | 17 | 0.1 | 8 | 1 | | | .75 | 170 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 6 | 123 | 0.2 | 33 | 1 | | | 7.00 | 940 | 10 | | | | 21.07 |
| -80C TOT | 220 | 0.3 | 13 | 103 | 1 | 40 | 2 | 1 | | 2.60 | 536 | 10 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= MODERATE ORGANIC SLIME
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|
| | 3 | 2 | 1 | 0 | X | X | X | X | X | X | X |

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 6.8KG
BASIN AREA = 6.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0135 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 01JUL81
 ----- -EASTING 451800E ----- SAMPLERS : NP/
 -NORTHNG 814700N G
 NTS- 105H05

 * * *
 * SAMPLE * 81G0136 *
 * * *

SAMPLE 81G0136 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 3.17 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 60000 | 0.8 | 4 | 570 | 2.8 | 84 | 2 | 90 | 16 | 1.36 | 272 | 18 | 0.4 | | 3300 | 4.17 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .55 |
| -60 HP TOT | | 0.1 | 29 | 1700 | 7.2 | 95 | 6 | | | 10.90 | 3470 | 38 | 8.2 | | | 3.69 |
| -35+60 IP OX | | 0.1 | 3 | 535 | 3.7 | 13 | 1 | | | 1.95 | 665 | 9 | | | | |
| -35+60 IP TOT | | 1.2 | 12 | 3000 | 5.6 | 112 | 2 | | | 11.80 | 1680 | 34 | | | | 1.35 |
| -80C TOT | 380 | 0.4 | 13 | 2290 | 6 | 48 | 4 | 1 | | 2.40 | 488 | 10 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DAR

SAMPLE SITE= BACK. EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | GOOD | MODERATE | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 12.7KG
 BASIN AREA = 7.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0136 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 01JUL81
 ----- -EASTING 452200E ----- SAMPLERS : NM/
 -NORTHNG 816300N G
 NTS- 105H05

 * * *
 * SAMPLE * 81G0137 *
 * * *

SAMPLE 81G0137 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CO PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.24 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | >50000 | 0.2 | 12 | 620 | 3.6 | 116 | 2 | 170 | 20 | 1.20 | 390 | 6 | 0.4 | < | 10 | 2.89 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.91 |
| -60 HP TOT | | 0.1 | 30 | 1550 | 8.8 | 43 | 5 | | | 9.20 | 5200 | 30 | 5.6 | | | 2.59 |
| -35+60 IP OX | | 0.2 | 2 | 800 | 2.4 | 6 | 2 | | | 2.90 | 500 | 18 | | | | |
| -35+60 IP TOT | | 0.2 | 22 | 4600 | 12.6 | 66 | 10 | | | 12.70 | 1820 | 50 | | | | 1.70 |
| -80C TOT | 340 | 0.2 | 7 | 1807 | 6 | 15 | 3 | 1 | | 1.20 | 328 | 8 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= VARIABLE MODERATE FE HYDROXIDES/RUST
 CONTAMINATION = PROBABLE EXOTIC TILL

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | | | | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | |

MAX. BOULDER SIZE= 0.0M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 13.2KG
 BASIN AREA = 3.0KM**2

NTS-105H05

 * * *
 * SAMPLE * 81G0137 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 457300E -----
-NORTHING 811700N G
NTS- 105H05

DATE SAMPLED: 01JUL81
SAMPLERS : NM/

* * *
* SAMPLE * 81G0138 *
* * *

SAMPLE 81G0138 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .13 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 457 | .94 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.47 |
| -60 HP TOT | | 0.2 | 128 | 680 | 0.2 | 450 | 10 | | | 23.00 | 15400 | 86 | 6 | | | 1.94 |
| -35+60 IP OX | | 0.1 | 13 | 78 | 0.1 | 57 | 1 | | | 1.50 | 4000 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 21 | 370 | 0.2 | 180 | 3 | | | 12.00 | 4000 | 20 | | | | 15.00 |
| -80C TOT | 840 | 0.1 | 9 | 141 | 1 | 80 | 2 | 1 | | 1.90 | 660 | 8 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= RED BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= MODERATE ORGANIC SLIME
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | VERY POOR | LOW | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.3KG
BASIN AREA = 3.0KM**2

NTS-105H05

* * *
* SAMPLE * 81G0138 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 01JUL81
-EASTING 451300E
-NORTHNG 820000N
NTS- 105H12

SAMPLERS : DC/

* * *
* SAMPLE * 81G0139 *
* * *

SAMPLE 81G0139 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include tests like -60 HM TOT, -35+60 IM TOT, etc.

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 10.5KG
BASIN AREA = 4.0KM**2

NTS-105H12

* * *
* SAMPLE * 81G0139 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 01JUL81
-EASTING 451900E
-NORTHNG 825000N
NTS- 105H12

SAMPLERS : DC/

* * *
* SAMPLE * 81G0141 *
* * *

SAMPLE 81G0141 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include various sample tests like -60 HM, -35+60 IM, -60 HN, etc.

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= LOW
DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.0M
MODERATE(10-50%) 2 X X SEDIMENT SORTING = MODERATE
LITTLE(<10%) 1 X X X DECAYED ORGANICS = LOW
NONE 0 X X X X CLAY GJ-SORTING PARAMETER =
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 12.3KG
BASIN AREA = 34.0KM**2

NTS-105H12

* * *
* SAMPLE * 81G0141 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
 ----- -EASTING 443500E -----
 -NORTHNG 825400N
 NTS- 105G09 G

 * * *
 * SAMPLE * 81G0142 *
 * * *

SAMPLE 81G0142 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.37 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | >50000 | 0.2 | 52 | 156 | 0.2 | 164 | 2 | 85 | NSS | 2.05 | 350 | 28 | 1.6 | | 10500 | 2.64 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 20.71 |
| -60 HP TOT | | 0.1 | 16 | 550 | 0.1 | 38 | 2 | | | 7.40 | 1900 | 14 | 2.8 | | | 3.63 |
| -35+60 IP OX | | 0.1 | 1 | 30 | 0.1 | 7 | 1 | | | 1.05 | 270 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 7 | 165 | 0.2 | 27 | 1 | | | 5.70 | 875 | 7 | | | | 26.03 |
| -80C TOT | 310 | 0.3 | 13 | 136 | 0.4 | 32 | 2 | 1 | | 2.00 | 471 | 11 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN GREY

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = PROBABLE ROAD

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | POOR | MODERATE | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 9.5KG
 BASIN AREA = 54.0KM**2

NTS-105G09

 * * *
 * SAMPLE * 81G0142 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
 ----- -EASTING 440500E -----
 -NORTHNG 821700N
 NTS- 105G09

DATE SAMPLED: 25JUN81
 SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0143 *
 * * *

SAMPLE 81G0143 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.42 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 40000 | 3 | 34 | 186 | 0.2 | 230 | 2 | 30 | 20 | 4.10 | 305 | 98 | 1.6 | 18500 | | 3.37 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.39 |
| -60 HP TOT | | 0.1 | 37 | 500 | 0.1 | 85 | 10 | | | 8.40 | 1960 | 39 | 3.8 | | | 4.84 |
| -35+60 IP OX | | 0.1 | 2 | 31 | 0.1 | 8 | 1 | | | 1.00 | 210 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 10 | 205 | 0.1 | 37 | 2 | | | 6.30 | 920 | 14 | | | | 9.98 |
| -80C TOT | 340 | 0.3 | 18 | 134 | 1 | 31 | 1 | 1 | | 2.00 | 494 | 7 | | | | |

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X |
| | | | | | X | X | X | X | X | X | X |

MAX. BOULDER SIZE= 0.6M
 SEDIMENT SORTING = VERY POOR
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.5KG
 BASIN AREA = 33.0KM**2

NTS-105G09

 * * *
 * SAMPLE * 81G0143 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 439700E -----
 -NORTHNG 827000N
 NTS- 105G09 G

DATE SAMPLED: 25JUN81
 SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0144 *
 * * *

SAMPLE 81G0144 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .52 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < 14 | | .84 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 5.48 |
| -60 HP TOT | | 0.2 | 40 | 280 | 0.2 | 24 | 2 | | | 6.40 | 2050 | 8 | 2.4 | | | 1.62 |
| -35+60 IP OX | | 0.1 | 1 | 30 | 0.2 | 4 | 1 | | | .90 | 275 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 150 | 0.4 | 14 | 1 | | | 5.75 | 930 | 11 | | | | 11.25 |
| -80C TOT | 520 | 0.6 | 14 | 150 | 0.8 | 45 | 3 | 1 | | 2.00 | 1716 | 12 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= HIGH FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
 ----- DEPTH= 0.9M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE ROAD

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | | | X | X | | | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | | | | | X | X | X | X | X | | | | | | DECAYED ORGANICS = HIGH |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 5.0KG
 BASIN AREA = 4.0KM**2

NTS-105G09

 * * *
 * SAMPLE * 81G0144 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 437500E -----
-NORTHNG 827500N
NTS- 105G09

DATE SAMPLED: 25JUN81
SAMPLERS : DC/

* * *
* SAMPLE * 81G0145 *
* * *

SAMPLE 81G0145 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.98 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .21 |
| -60 HN TOT | 15000 | 0.2 | 44 | 80 | 0.2 | 58 | 2 | 40 | 4 | 2.25 | 475 | 12 | 1.6 | < | 10 | 9.75 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 24.14 |
| -60 HP TOT | | 0.1 | 15 | 530 | 0.1 | 27 | 2 | | | 7.25 | 2150 | 9 | 3.2 | | | 6.49 |
| -35+60 IP OX | | 0.1 | 1 | 15 | 0.1 | 4 | 1 | | | .60 | 154 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 122 | 0.1 | 12 | 1 | | | 4.95 | 790 | 4 | | | | 15.29 |
| -80C TOT | 300 | 0.1 | 9 | 70 | 1 | 30 | 1 | 1 | | 1.60 | 223 | 3 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BLACK/DAR

SAMPLE SITE= OTHER STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= HEAVY FE HYDROXIDES/RUST
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | X | X | X | | | | | | X | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.9KG
BASIN AREA = 4.0KM**2

NTS-105G09

* * *
* SAMPLE * 81G0145 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 25JUN81
----- -EASTING 435000E -----
-NORTHNG 825000N G
NTS- 105G09

DATE SAMPLED: 25JUN81
SAMPLERS : CH/

* * * * *
* SAMPLE * 81G0146 *
* * * * *

SAMPLE 81G0146 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.32 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .16 |
| -60 HN TOT | 32000 | 0.2 | 16 | 56 | 0.2 | 40 | 2 | 85 | 72 | 1.40 | 360 | 8 | 1.6 | < | 10 | 4.81 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 6.62 |
| -60 HP TOT | | 0.1 | 23 | 280 | 0.2 | 36 | 23 | | | 7.30 | 2900 | 16 | 5 | | | 6.77 |
| -35+60 IP OX | | 0.1 | 1 | 14 | 0.1 | 8 | 2 | | | .85 | 124 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 138 | 0.2 | 40 | 1 | | | 6.10 | 915 | 7 | | | | 9.17 |
| -80C TOT | 250 | 0.3 | 16 | 109 | 0.4 | 33 | 2 | 1 | | 2.00 | 348 | 13 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= WHITE/LIGHTGREY SEDIMENT COLOR= GREY
SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = GOOD
LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = LOW
NONE 0 X X X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.1KG
BASIN AREA = 2.0KM**2

NTS-105G09

* * * * *
* SAMPLE * 81G0146 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 436500E -----
-NORTHNG 789800N
NTS- 105G01

SAMPLERS : CH/

* * *
* SAMPLE * 81G0147 *
* * *

SAMPLE 81G0147 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .08 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | >50000 | 3 | 2 | 200 | 0.8 | 54 | 4 | 30 | 28 | 3.10 | 105 | 58 | 4 | | 10 | 9.45 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.76 |
| -60 HP TOT | | 15 | 460 | 3650 | 21 | 570 | 7 | | | 37.50 | 2050 | 600 | 132 | | | 2.99 |
| -35+60 IP OX | | 0.1 | 61 | 454 | 6 | 48 | 5 | | | 2.50 | 650 | 38 | | | | |
| -35+60 IP TOT | | 4.5 | 250 | 3600 | 16 | 440 | 78 | | | 18.00 | 1250 | 400 | | | | 13.86 |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | GOOD | MODERATE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.7KG
BASIN AREA = 2.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0147 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 442000E -----
-NORTHNG 784200N G
NTS- 105G01

DATE SAMPLED: 23JUN81
SAMPLERS : DC/

* * * * *
* SAMPLE * 81G0148 *
* * * * *

SAMPLE 81G0148

A S S A Y R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .40 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 28000 | 1.6 | 56 | 98 | 0.2 | 44 | 2 | 30 | 28 | 3.85 | 485 | 6 | 15.2 | < | 10 | 4.38 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.79 |
| -60 HP TOT | | 0.9 | 84 | 430 | 1.3 | 150 | 6 | | | 13.00 | 2300 | 120 | 1.6 | | | 10.37 |
| -35+60 IP OX | | 0.1 | 6 | 166 | 0.3 | 30 | 1 | | | 1.75 | 260 | 24 | | | | |
| -35+60 IP TOT | | 0.1 | 49 | 555 | 1.2 | 105 | 3 | | | 9.90 | 1200 | 95 | | | | 10.00 |

STREAM WIDTH= 0.9M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 DEPTH= 0.5M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= WHITE/LIGHTBROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.0M
 MODERATE(10-50%) 2 X X X SEDIMENT SORTING = POOR
 LITTLE(<10%) 1 X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 8.6KG
BASIN AREA = 1.0KM**2

NTS-105G01

* * * * *
* SAMPLE * 81G0148 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 00 PROJECT DATE SAMPLED: 27JUN81
-EASTING 438700E -NORTHNG 770000N NTS- 105G01

SAMPLERS : NP/

* * *
* SAMPLE * 81G0149 *
* * *

SAMPLE 81G0149 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN, HN TOT, IN TOT, HP TOT, IP CX, IP TOT.

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN
SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = GOOD
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE WEIGHT= 11.4KG BASIN AREA = 4.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0149 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15JUN81
 ----- -EASTING 436400E ----- SAMPLERS : CH/NM
 -NORTHNG 680150N G
 NTS- 105G08

 * * *
 * SAMPLE * 81G0203 *
 * * *

SAMPLE 81G0203 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM | | | | | | | | | | | | | | | | 1.46 |
| -60 HM TOT | | | | | | | | | | | | | | | | 1.46 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN | 1250 | 0.2 | 26 | 56 | 0.4 | 24 | 2 | 1200 | 32 | 1.50 | 460 | 2 | 0.8 | | 3480 | 2.95 |
| -60 HN TOT | 1250 | 0.2 | 26 | 56 | 0.4 | 24 | 2 | 1200 | 32 | 1.50 | 460 | 2 | 0.8 | | 3480 | 2.95 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .74 |
| -60 HP | | | | | | | | | | | | | | | | 18.87 |
| -60 HP TOT | | 0.1 | 10 | 87 | 0.1 | 11 | 1 | | | 5.00 | 3610 | 2 | 1 | | | 18.87 |
| -35+60 IP OX | | 0.1 | 1 | 22 | 0.1 | 4 | 1 | | | 1.00 | 120 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 92 | 0.1 | 8 | 1 | | | 4.30 | 660 | 5 | | | | 7.15 |
| -80C TOT | 160 | 0.1 | 6 | 71 | 0.6 | 9 | 3 | 1 | | 2.00 | 466 | 7 | | | | |

STREAM WIDTH= 0.3M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DAR
 SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 1.5M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 6.4KG
 BASIN AREA = 21.0KM**2

NTS-105G08

 * * *
 * SAMPLE * 81G0203 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15JUN81
----- -EASTING 439900E -----
-NORTHNG 801800N G
NTS- 105G08

DATE SAMPLED: 15JUN81
SAMPLERS : NP/

* * *
* SAMPLE * 81G0204 *
* * *

SAMPLE 81G0204 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM | | | | | | | | | | | | | | | | .50 |
| -60 HM TOT | | | | | | | | | | | | | | | | .50 |
| -35+60 IM | | | | | | | | | | | | | | | | .02 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .02 |
| -60 HN TOT | 950 | 0.2 | 36 | 64 | 0.2 | 140 | 2 | 400 | NSS | 1.80 | 500 | 2 | 0.4 | < 10 | | 2.62 |
| -35+60 IN | | | | | | | | | | | | | | | | .93 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .93 |
| -60 HP | | | | | | | | | | | | | | | | 10.38 |
| -60 HP TOT | | 0.1 | 14 | 120 | 0.1 | 13 | 4 | | | 6.80 | 7380 | 2 | 0.2 | | | 10.38 |
| -35+60 IP OX | | 0.1 | 1 | 9 | 0.1 | 1 | 1 | | | .30 | 29 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 160 | 0.1 | 5 | 1 | | | 5.50 | 925 | 3 | | | | 12.22 |
| -80C TOT | 120 | 0.2 | 11 | 86 | 12 | 24 | 1 | 1 | | 1.30 | 134 | 3 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= STAGNANT TURBULENCE= STILL GRADIENT= NIL
----- DEPTH= 1.5M
PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR SEDIMENT COLOR= GREY

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE ORGANIC SLIME
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | | | | | | | | | | | 0.6M | MODERATE | HIGH | | |
| | 2 | X | X | X | | | | | | | | | | | | |
| | 1 | X | X | X | | | | | | | | | | | | |
| | 0 | X | X | X | | | | | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 5.5KG
BASIN AREA = 5.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0204 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15JUN81
----- -EASTING 437200E -----
-NORTHNG 808800N
NTS- 105G08

SAMPLERS : DC/

* * *
* SAMPLE * 81G0206 *
* * *

SAMPLE 81G0206 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM | | | | | | | | | | | | | | | | .15 |
| -60 HM TOT | | | | | | | | | | | | | | | | .15 |
| -35+60 IM | | | | | | | | | | | | | | | | < .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 7250 | .33 |
| -35+60 IN | | | | | | | | | | | | | | | | .30 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .30 |
| -60 HP | | | | | | | | | | | | | | | | < .01 |
| -60 HP TOT | | | | | | | | | | | | | | | | < .01 |
| -35+60 IP OX | | 0.2 | 22 | 106 | 0.6 | 8 | 6 | | | 2.20 | 260 | 16 | | | | |
| -35+60 IP TOT | | 0.2 | 50 | 400 | 1.4 | 10 | 8 | | | 8.80 | 1000 | 20 | | | | 1.65 |
| -80C TOT | 150 | 0.7 | 8 | 280 | 1.2 | 10 | 8 | 1 | | 1.90 | 489 | 5 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= BRAIDED SAMPLE POSITION= NOT RECORDED

PRECIPITATE OR STAIN= NONE
CONTAMINATION = POSSIBLE EXOTIC TILL

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | VERY POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 2.3KG
BASIN AREA = 10.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0206 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 431500E -----
 -NORTHNG 814000N
 NTS- 105G08 G

DATE SAMPLED: 15JUN81
 SAMPLERS : CH/NM

 * * *
 * SAMPLE * 81G0207 *
 * * *

SAMPLE 81G0207 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM | | | | | | | | | | | | | | | | .78 |
| -60 HM TOT | | | | | | | | | | | | | | | | .78 |
| -35+60 IM | | | | | | | | | | | | | | | | .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 1000 | 0.2 | 20 | 38 | 0.2 | 14 | 2 | 400 | NSS | 1.60 | 405 | 2 | NSS | < | 10 | 2.05 |
| -35+60 IN | | | | | | | | | | | | | | | | .65 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .65 |
| -60 HP | | | | | | | | | | | | | | | | 5.65 |
| -60 HP TOT | | 0.1 | 11 | 105 | 0.3 | 12 | 1 | | | 6.00 | 4750 | 3 | 0.2 | | | 5.65 |
| -35+60 IP OX | | 0.1 | 2 | 33 | 0.1 | 6 | 2 | | | 1.45 | 225 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 87 | 0.6 | 15 | 2 | | | 7.30 | 855 | 16 | | | | 2.70 |
| -80C TOT | 120 | 0.1 | 6 | 61 | 0.6 | 5 | 2 | 1 | | 1.70 | 480 | 10 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DAR
 SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | | | | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 6.8KG
 BASIN AREA = 13.0KM**2

NTS-105G08

 * * *
 * SAMPLE * 81G0207 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15JUN81
-EASTING 427200E SAMPLERS : NP/
-NORTHNG 811600N G
NTS- 105G08

* * *
* SAMPLE * 81G0208 *
* * *

SAMPLE 81G0208 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include various tests like HM, IM, HN, HP, IP, and TOT.

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

Table with columns: SEDIMENT, LOTS(>50%), MODERATE(10-50%), LITTLE(<10%), NONE, BOULDERS, COBBLES, PEBBLES, GRANULES, SAND, SILT, CLAY. Contains 'X' marks indicating presence of sediment types.

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 11.8KG
BASIN AREA = 8.0KM**2

* * *
* SAMPLE * 81G0208 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15JUN81
-EASTING 427400E
-NORTHNG 802800N
NTS- 105G08

SAMPLERS : DC/

* * *
* SAMPLE * 81G0209 *
* * *

SAMPLE 81G0209 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include tests like -60 HM, -35+60 IM, -60 HN, -35+60 IN, -60 HP, -35+60 IP, and -80C TOT.

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= LOW
DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE CONTAMINATION = NONE EXOTIC TILL

SEDIMENT LOTS(>50%) 3 X MODERATE(10-50%) 2 X LITTLE(<10%) 1 X NONE 0 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = NONE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 7.3KG
BASIN AREA = 4.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0209 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 420700E -----
 -NORTHNG 810600N
 NTS- 105G08

DATE SAMPLED: 15JUN81
 SAMPLERS : CH/NM

 * * *
 * SAMPLE * 81G0210 *
 * * *

SAMPLE 81G0210 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM | | | | | | | | | | | | | | | | 1.07 |
| -60 HM TOT | | | | | | | | | | | | | | | | 1.07 |
| -35+60 IM | | | | | | | | | | | | | | | | .04 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | 1600 | 0.2 | 14 | 80 | 0.6 | 16 | 4 | 740 | 32 | 3.35 | 990 | 4 | 0.8 | 10 | | 18.42 |
| -35+60 IN | | | | | | | | | | | | | | | | 2.26 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.26 |
| -60 HP | | | | | | | | | | | | | | | | 5.18 |
| -60 HP TOT | | 0.1 | 18 | 85 | 0.3 | 25 | 4 | | | 5.80 | 4200 | 4 | 0.1 | | | 51.80 |
| -35+60 IP | | | | | | | | | | | | | | | | 39.17 |
| -35+60 IP OX | | 0.1 | 3 | 20 | 0.1 | 7 | 1 | | | .85 | 88 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 10 | 104 | 0.1 | 24 | 1 | | | 4.00 | 530 | 5 | | | | 39.17 |
| -80C TOT | 60 | 0.1 | 13 | 82 | 1 | 15 | 1 | 4 | | 1.70 | 202 | 4 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= WHITE/LIGHTBROWN
 SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= MODERATE FE HYDROXIDES/RUST
 CONTAMINATION = UNCERTAIN

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 9.5KG
 BASIN AREA = 5.0KM**2

NTS-105G08

 * * *
 * SAMPLE * 81G0210 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 421500E -----
 -NORTHNG 810500N
 NTS- 105G08 G

DATE SAMPLED: 15JUN81
 SAMPLERS : CH/NM

 * * *
 * SAMPLE * 81G0211 *
 * * *

SAMPLE 81G0211 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM | | | | | | | | | | | | | | | | 1.87 |
| -60 HM TOT | | | | | | | | | | | | | | | | 1.87 |
| -35+60 IM | | | | | | | | | | | | | | | | .22 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .22 |
| -60 HN TOT | 900 | 0.2 | 12 | 66 | 0.2 | 38 | 8 | 2400 | 440 | 3.70 | 1050 | 12 | 1.6 | < | 10 | 9.36 |
| -35+60 IN | | | | | | | | | | | | | | | | 8.45 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 8.45 |
| -60 HP | | | | | | | | | | | | | | | | 12.66 |
| -60 HP TOT | | 0.1 | 14 | 110 | 0.1 | 35 | 2 | | | 5.30 | 5020 | 4 | 0.1 | | | 12.66 |
| -35+60 IP | | | | | | | | | | | | | | | | 66.68 |
| -35+60 IP OX | | 0.1 | 1 | 12 | 0.1 | 5 | 1 | | | .70 | 145 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 4 | 45 | 0.1 | 11 | 1 | | | 3.40 | 475 | 5 | | | | 66.68 |
| -80C TOT | 110 | 0.2 | 15 | 105 | 0.4 | 15 | 1 | 1 | | 2.20 | 385 | 9 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.7M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|--|------|---|------|--|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 2.4M |
| ----- | MODERATE(10-50%) | 2 | | X | X | X | X | | | | | | | | | | SEDIMENT SORTING = GOOD |
| | LITTLE(<10%) | 1 | X | X | X | X | X | | | X | | | | | | | DECAYED ORGANICS = HIGH |
| | NONE | 0 | X | X | X | X | X | | | X | | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | | SILT | | CLAY | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 8.2KG
 BASIN AREA = 17.0KM**2

NTS-105G08

 * * *
 * SAMPLE * 81G0211 *
 * * *

EX033

H E A V Y M I N E R A L S

2CMAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15JUN81
----- -EASTING 421100E -----
-NORTHNG 810300N
NTS- 105G08

SAMPLERS : NP/

* * *
* SAMPLE * 81G0213 *
* * *

SAMPLE 81G0213 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM | | | | | | | | | | | | | | | | 3.00 |
| -60 HM TOT | | | | | | | | | | | | | | | | 3.00 |
| -35+60 IM | | | | | | | | | | | | | | | | .12 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .12 |
| -60 HN TOT | 1000 | 0.2 | 16 | 64 | 0.2 | 110 | 6 | 550 | 36 | 2.55 | 630 | 2 | 0.4 | < | 10 | 18.93 |
| -35+60 IN | | | | | | | | | | | | | | | | 2.04 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.04 |
| -60 HP | | | | | | | | | | | | | | | | 86.16 |
| -60 HP TOT | | 0.1 | 19 | 88 | 0.3 | 80 | 5 | | | 6.10 | 3200 | 4 | 0.1 | | | 86.16 |
| -35+60 IP | | | | | | | | | | | | | | | | 50.95 |
| -35+60 IP OX | | 0.1 | 3 | 20 | 0.1 | 16 | 1 | | | 1.00 | 275 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 95 | 0.1 | 52 | 1 | | | 4.55 | 790 | 3 | | | | 50.95 |
| -80C TOT | 140 | 0.3 | 14 | 134 | 0.2 | 20 | 2 | 1 | | 2.50 | 184 | 5 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.9M | POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 6.8KG
BASIN AREA = 9.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0213 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15JUN81
----- -EASTING 416500E -----
-NORTHNG 806000N
NTS- 105G07

SAMPLERS : NP/

* * *
* SAMPLE * 81G0214 *
* * *

SAMPLE 61G0214 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM | | | | | | | | | | | | | | | | 13.19 |
| -60 HM TOT | | | | | | | | | | | | | | | | 13.19 |
| -35+60 IM | | | | | | | | | | | | | | | | 2.00 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | 2.00 |
| -60 HN TOT | 1250 | 0.2 | 8 | 60 | 0.2 | 28 | 4 | 2080 | 108 | 2.60 | 700 | 2 | 0.8 | < | 10 | 11.29 |
| -35+60 IN | | | | | | | | | | | | | | | | 3.95 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.95 |
| -60 HP | | | | | | | | | | | | | | | | 16.61 |
| -60 HP TOT | | 0.1 | 14 | 240 | 0.2 | 23 | 2 | | | 7.00 | 5670 | 9 | 0.2 | | | 16.61 |
| -35+60 IP | | | | | | | | | | | | | | | | 26.30 |
| -35+60 IP OX | | 0.1 | 8 | 14 | 0.1 | 3 | 1 | | | 1.00 | 155 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 7 | 118 | 0.1 | 17 | 1 | | | 4.80 | 860 | 6 | | | | 26.30 |
| -80C TOT | 120 | 0.2 | 11 | 117 | 0.8 | 52 | 3 | 1 | | 3.30 | 634 | 11 | | | | |

STREAM WIDTH= 3.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN

SAMPLE SITE= POINT BAR STREAM TYPE= BRAID/MEANDR SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= SLIGHT CONTAMINATION = POSSIBLE FE HYDROXIDES/RUST EXOTIC TILL

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | | | | | | | | | | | 0.6M | NOT RECORDED | NOT RECORDED | | |
| | | 2 | | | X | X | X | X | X | X | X | | | | | |
| | | 1 | | | X | X | X | X | X | X | X | | | | | |
| | | 0 | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= NOT RECORDED
----- WEIGHT= 11.8KG
BASIN AREA = 10.0KM**2

NTS-105G07

* * *
* SAMPLE * 81G0214 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 424200E -----
 -NORTHNG 802000N
 NTS- 105G08

DATE SAMPLED: 15JUN81
 SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0215 *
 * * *

SAMPLE 81G0215 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM | | | | | | | | | | | | | | | | 3.36 |
| -60 HM TOT | | | | | | | | | | | | | | | | 3.36 |
| -35+60 IM | | | | | | | | | | | | | | | | 1.40 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | 1.40 |
| -60 HN TOT | 650 | 0.2 | 10 | 60 | 0.2 | 22 | 4 | 800 | 88 | 2.50 | 790 | 2 | 1.6 | | 20 | 5.74 |
| -35+60 IN | | | | | | | | | | | | | | | | 11.18 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 11.18 |
| -60 HP | | | | | | | | | | | | | | | | 21.27 |
| -60 HP TOT | | 0.1 | 11 | 150 | 0.3 | 16 | 2 | | | 6.85 | 7180 | 4 | 0.2 | | | 21.27 |
| -35+60 IP | | | | | | | | | | | | | | | | 40.84 |
| -35+60 IP OX | | 0.1 | 9 | 18 | 0.1 | 4 | 1 | | | 1.05 | 83 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 89 | 0.2 | 13 | 1 | | | 4.20 | 565 | 6 | | | | 40.84 |
| -80C TOT | 160 | 0.3 | 16 | 146 | 0.2 | 23 | 2 | 4 | | 3.20 | 502 | 10 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE EXOTIC TILL

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 6.3KG
 BASIN AREA = 6.0KM**2

NTS-105G08

 * * *
 * SAMPLE * 81G0215 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 421700E
-NORTHNG 680150N
NTS- 105G08

PROJECT

G

DATE SAMPLED: 15JUN81
SAMPLERS : CH/NM

* * *
* SAMPLE * 81G0216 *
* * *

SAMPLE
81G0216

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM | | | | | | | | | | | | | | | | 5.53 |
| -60 HM TOT | | | | | | | | | | | | | | | | 5.53 |
| -35+60 IM | | | | | | | | | | | | | | | | .25 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .25 |
| -60 HN TOT | 4200 | 0.2 | 36 | 52 | 0.2 | 16 | 2 | 800 | 16 | 2.20 | 1180 | 2 | 1.6 | | 20 | 3.65 |
| -35+60 IN | | | | | | | | | | | | | | | | .38 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .38 |
| -60 HP | | | | | | | | | | | | | | | | 17.06 |
| -60 HP TOT | | 0.1 | 10 | 190 | 0.2 | 24 | 2 | | | 6.50 | 4880 | 4 | 0.1 | | | 17.06 |
| -35+60 IP | | | | | | | | | | | | | | | | 5.25 |
| -35+60 IP OX | | 0.1 | 5 | 27 | 0.1 | 10 | 1 | | | 1.35 | 1250 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 9 | 125 | 0.2 | 25 | 2 | | | 4.85 | 1650 | 5 | | | | 5.25 |
| -80C TCT | 480 | 0.5 | 13 | 143 | 0.6 | 23 | 4 | 1 | | 4.90 | 3587 | 11 | | | | |

STREAM WIDTH= 0.3M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDERING SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= VARIABLE HEAVY MN HYDROXIDES/BLACK
CONTAMINATION = NONE

| | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---------------------------|------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | MAX. BOULDER SIZE= | 0.3M |
| ----- | MODERATE(10-50%) | 2 | | | | | | | | SEDIMENT SORTING = | GOOD |
| | LITTLE(<10%) | 1 | X | X | X | X | | X | | DECAYED ORGANICS = | LOW |
| | NONE | 0 | X | X | X | X | | X | | GJ-SORTING PARAMETER = | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | GJ-COARSENESS PARAMETER = | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.6KG
BASIN AREA = 1.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0216 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 421700E
-NORTHNG 801000N
NTS- 105G08

PROJECT

G

DATE SAMPLED: 15JUN81
SAMPLERS : NM/CH

* * * * *
* SAMPLE * 81G0217 *
* * * * *

SAMPLE
81G0217

A S S A Y

R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM | | | | | | | | | | | | | | | | 2.91 |
| -60 HM TOT | | | | | | | | | | | | | | | | 2.91 |
| -35+60 IM | | | | | | | | | | | | | | | | .26 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .26 |
| -60 HN TOT | 750 | 0.2 | 16 | 96 | 0.6 | 14 | 4 | 420 | NSS | 3.50 | 1190 | 4 | 2.4 | < 10 | | 7.10 |
| -35+60 IN | | | | | | | | | | | | | | | | 3.55 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.55 |
| -60 HP | | | | | | | | | | | | | | | | 8.88 |
| -60 HP TOT | | 0.1 | 9 | 110 | 0.6 | 21 | 4 | | | 6.50 | 6600 | 2 | 0.1 | | | 8.88 |
| -35+60 IP | | | | | | | | | | | | | | | | 30.80 |
| -35+60 IP OX | | 0.1 | 3 | 23 | 0.2 | 5 | 1 | | | .65 | 160 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 86 | 0.1 | 9 | 1 | | | 2.35 | 415 | 4 | | | | 30.80 |
| -80C TOT | 280 | 0.4 | 16 | 192 | 0.6 | 36 | 2 | 1 | | 2.10 | 654 | 6 | | | | |

STREAM WIDTH= 0.3M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.0M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|----|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | .2 | | | | | | | | X | X | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | | X | X | X | X | X | X | X | X | | | | | | DECAYED ORGANICS = HIGH |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 5.9KG
BASIN AREA = 4.0KM**2

NTS-105G08

* * * * *
* SAMPLE * 81G0217 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15JUN81
-EASTING 427500E
-NORTHNG 801500N
NTS- 105G08

SAMPLERS : DC/

* * *
* SAMPLE * 81G0218 *
* * *

SAMPLE 81G0218

A S S A Y

R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include tests like -60 HM, -35+60 IM, -60 HN TOT, etc.

STREAM WIDTH= 0.6M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN

SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= HEAVY CONTAMINATION = POSSIBLE FE HYDROXIDES/RUST EXOTIC TILL

SEDIMENT LOTS(>50%) 3 X MODERATE(10-50%) 2 -X LITTLE(<10%) 1 X NONE 0 X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 1.2M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 4.5KG
BASIN AREA = 4.0KM**2

* * *
* SAMPLE * 81G0218 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15JUN81
-EASTING 432800E.
-NORTHNG 800100N
NTS- 105G08

SAMPLERS : DC/

* * *
* SAMPLE * 81G0219 *
* * *

SAMPLE 81G0219 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include various sample tests like -60 HM, -35+60 IM, etc.

STREAM WIDTH= 4.5M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR BLACK/DARSEDIMENT COLOR= WHITE/LIGHBROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= HEAVY MN HYDROXIDES/BLACK
CONTAMINATION = PROBABLE EXOTIC TILL

Table with columns: SEDIMENT, LOTS(>50%), MODERATE(10-50%), LITTLE(<10%), NONE, BOULDERS, COBBLES, PEBBLES, GRANULES, SAND, SILT, CLAY, MAX. BOULDER SIZE, SEDIMENT SORTING, DECAYED ORGANICS, GJ-SORTING PARAMETER, GJ-COARSENESS PARAMETER.

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 8.2KG
BASIN AREA = 15.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0219 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 15JUN81
-EASTING 436500E -NORTHNG 800500N NTS- 105G08

SAMPLERS : CH/NM

* * *
* SAMPLE * 81G0220 *
* * *

SAMPLE 81G0220 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, TOT.

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.4M PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKGREY
SAMPLE SITE= POINT BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M SEDIMENT SORTING = MODERATE DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER = GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE WEIGHT= 7.7KG BASIN AREA = 9.0KM**2

* * *
* SAMPLE * 81G0220 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
-EASTING 429200E
-NORTHNG 795500N
NTS- 105G08

SAMPLERS : DC/

* * *
* SAMPLE * 81G0221 *
* * *

SAMPLE 81G0221 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include various sample tests like -60 HM, -35+60 IM, etc.

STREAM WIDTH= 1.2M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= STABLE BOTTOM STREAM TYPE= BRAID/MEANDR SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.3M
MODERATE(10-50%) 2 X X X SEDIMENT SORTING = VERY POOR
LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = LOW
NONE 0 X X X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 8.6KG
BASIN AREA = 5.0KM**2

* * *
* SAMPLE * 81G0221 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 429000E
-NORTHNG 792300N
NTS- 105G08

PROJECT

G

DATE SAMPLED: 23JUN81
SAMPLERS : CH/

* * * * *
* SAMPLE * 81G0222 *
* * * * *

SAMPLE
81G0222

A S S A Y

R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM | | | | | | | | | | | | | | | | 12.68 |
| -60 HM TOT | | | | | | | | | | | | | | | | 12.68 |
| -35+60 IM | | | | | | | | | | | | | | | | .08 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .08 |
| -60 HN TOT | 3800 | 0.8 | 36 | 160 | 0.4 | 104 | 2 | 420 | 36 | 5.80 | 760 | 30 | 1.6 | 5110 | | 9.57 |
| -35+60 IN | | | | | | | | | | | | | | | | 4.82 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.82 |
| -60 HP | | | | | | | | | | | | | | | | 15.71 |
| -60 HP TOT | | 0.4 | 47 | 540 | 1.2 | 76 | 4 | | | 10.20 | 3800 | 35 | 2.8 | | | 15.71 |
| -35+60 IP | | | | | | | | | | | | | | | | 25.69 |
| -35+60 IP OX | | 0.1 | 8 | 41 | 0.1 | 8 | 1 | | | .90 | 210 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 15 | 165 | 0.5 | 20 | 1 | | | 5.60 | 810 | 16 | | | | 25.69 |
| -80C TOT | 120 | 0.4 | 29 | 290 | 1.6 | 39 | 3 | 1 | | 3.60 | 685 | 25 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= TAN
 SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|---|----------|---------|---------|----------|------|--|------|---|------|---|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.6M |
| ----- | MODERATE(10-50%) | 2 | | X | | X | | | | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | X | | X | | X | | | | X | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | | X | | X | | X | | | X | | X | | | | GJ-SORTING PARAMETER = |
| | | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | | SILT | | CLAY | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.1KG
BASIN AREA = 6.0KM**2

NTS-105G08

* * * * *
* SAMPLE * 81G0222 *
* * * * *

EX033

H E A V Y M I N E R A L S

2CMAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 432200E - - - - -
-NORTHNG 794800N G
NTS- 105G08

DATE SAMPLED: 23JUN81
SAMPLERS : NM/

* * *
* SAMPLE * 81G0223 *
* * *

SAMPLE 81G0223 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 7.26 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .15 |
| -60 HN TOT | 800 | 0.2 | 40 | 38 | 1.2 | 26 | 4 | 390 | 44 | 2.40 | 580 | 4 | 2.4 | | 40 | 5.49 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.75 |
| -60 HP TOT | | 0.1 | 17 | 170 | 1.1 | 22 | 2 | | | 5.15 | 3400 | 5 | 0.2 | | | 21.44 |
| -35+60 IP OX | | 0.1 | 4 | 46 | 0.1 | 3 | 1 | | | 1.05 | 180 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 170 | 0.5 | 10 | 1 | | | 5.00 | 770 | 6 | | | | 21.98 |
| -80C TOT | 230 | 0.2 | 26 | 454 | 2 | 25 | 5 | 1 | | 3.20 | 604 | 21 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= SLIGHT CONTAMINATION = NONE
FE HYDROXIDES/RUST

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | X | X | | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.6M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 11.4KG
BASIN AREA = 5.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0223 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
 ----- -EASTING 423000E -----
 -NORTHNG 795300N
 NTS- 105G08 G

DATE SAMPLED: 23JUN81
SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0224 *
 * * *

SAMPLE 81G0224

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM | | | | | | | | | | | | | | | | 1.79 |
| -60 HM TOT | | | | | | | | | | | | | | | | 1.79 |
| -35+60 IM | | | | | | | | | | | | | | | | .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 2100 | 0.2 | 42 | 80 | 0.8 | 36 | 4 | 315 | 40 | 2.40 | 540 | 2 | NSS | | 780 | 2.00 |
| -35+60 IN | | | | | | | | | | | | | | | | 1.55 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.55 |
| -60 HP | | | | | | | | | | | | | | | | 9.07 |
| -60 HP TOT | | 0.1 | 26 | 160 | 0.7 | 27 | 3 | | | 6.20 | 2970 | 7 | 0.6 | | | 9.07 |
| -35+60 IP | | | | | | | | | | | | | | | | 14.94 |
| -35+60 IP OX | | 0.1 | 8 | 40 | 0.1 | 6 | 1 | | | 1.05 | 250 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 11 | 150 | 0.4 | 12 | 1 | | | 6.25 | 945 | 9 | | | | 14.94 |
| -80C TOT | 100 | 0.2 | 16 | 176 | 1 | 20 | 3 | 1 | | 2.80 | 727 | 12 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
 ----- MODERATE(10-50%) 2 SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 COBBLES X PEBBLES X GRANULES X SAND X SILT X CLAY X
 NONE 0 BOULDERS X COBBLES X PEBBLES X GRANULES X SAND X SILT X CLAY X

DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.0KG
 BASIN AREA = 5.0KM**2

NTS-105G08

 * * *
 * SAMPLE * 81G0224 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 441500E -----
-NORTHNG 791500N
NTS- 105G08

SAMPLERS : NP/

* * *
* SAMPLE * 81G0225 *
* * *

SAMPLE 81G0225 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM | | | | | | | | | | | | | | | | 1.35 |
| -60 HM TOT | | | | | | | | | | | | | | | | 1.35 |
| -35+60 IM | | | | | | | | | | | | | | | | < .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 20000 | 0.2 | 56 | 82 | 3 | 20 | 2 | 270 | NSS | 1.65 | 430 | 4 | 4 | | 610 | 2.77 |
| -35+60 IN | | | | | | | | | | | | | | | | 1.31 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.31 |
| -60 HP | | | | | | | | | | | | | | | | 10.96 |
| -60 HP TOT | | 0.1 | 24 | 215 | 1.4 | 29 | 3 | | | 8.55 | 8800 | 7 | 3.8 | | | 10.96 |
| -35+60 IP | | | | | | | | | | | | | | | | 6.19 |
| -35+60 IP OX | | 0.1 | 11 | 106 | 0.7 | 16 | 1 | | | 1.85 | 105 | 14 | | | | |
| -35+60 IP TOT | | 0.1 | 18 | 390 | 1.2 | 41 | 4 | | | 9.80 | 1050 | 53 | | | | 6.19 |
| -80C TOT | 160 | 0.9 | 17 | 178 | 0.6 | 51 | 2 | 1 | | 1.50 | 113 | 14 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | MODERATE | LOW | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 11.4KG
BASIN AREA = 4.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0225 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 439600E
-NORTHNG 791500N
NTS- 105G08

PROJECT

G

DATE SAMPLED: 23JUN81
SAMPLERS : NM/

* * * * *
* SAMPLE * 81G0226 *
* * * * *

SAMPLE 81G0226 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM | | | | | | | | | | | | | | | | 1.99 |
| -60 HM TOT | | | | | | | | | | | | | | | | 1.99 |
| -35+60 IM | | | | | | | | | | | | | | | | .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 11000 | 1 | 138 | 620 | 7.4 | 14 | 4 | 1000 | NSS | 4.60 | 890 | 150 | NSS | 36500 | | 1.93 |
| -35+60 IN | | | | | | | | | | | | | | | | 1.38 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.38 |
| -60 HP | | | | | | | | | | | | | | | | 7.30 |
| -60 HP TOT | | 0.1 | 115 | 1200 | 1.5 | 128 | 3 | | | 13.80 | >10000 | 53 | 6.6 | | | 7.30 |
| -35+60 IP | | | | | | | | | | | | | | | | 15.54 |
| -35+60 IP CX | | 0.1 | 26 | 360 | 1.9 | 27 | 1 | | | 1.50 | 565 | 29 | | | | |
| -35+60 IP TOT | | 0.1 | 102 | 1100 | 2.9 | 72 | 5 | | | 11.00 | 1550 | 69 | | | | 15.54 |
| -80C TOT | 120 | 0.4 | 42 | 987 | 2.2 | 103 | 4 | 1 | | 2.80 | 506 | 23 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | |
| ----- | MODERATE(10-50%) | 2 | | X | X | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | |

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.1KG
BASIN AREA = 0.0KM**2

NTS-105G08

* * * * *
* SAMPLE * 81G0226 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 434500E -SAMPLERS : NM/
-NORTHNG 790500N G
NTS- 105G01

* * *
* SAMPLE * 81G0227 *
* * *

SAMPLE 81G0227 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.33 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 67 | .48 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 5.01 |
| -60 HP TOT | | 0.1 | 20 | 115 | 0.6 | 40 | 4 | | | 7.00 | 2550 | 10 | 0.6 | | | 3.13 |
| -35+60 IP OX | | 0.1 | 5 | 29 | 0.2 | 6 | 1 | | | .80 | 140 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 106 | 0.1 | 14 | 1 | | | 5.80 | 800 | 6 | | | | 34.91 |
| -80C TOT | 120 | 0.1 | 16 | 121 | 1 | 16 | 1 | 1 | | 2.30 | 362 | 12 | | | | |

STREAM WIDTH= 3.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= TAN GREY

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | |

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 11.4KG
BASIN AREA = 55.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0227 *
* * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
-EASTING 441000E
-NORTHNG 791100N
NTS- 105G01

SAMPLERS : DC/

* * *
* SAMPLE * 81G0228 *
* * *

SAMPLE 81G0228 ASSAY RESULTS

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, TOT.

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
DEPTH= 0.0M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= STABLE BOTTOM STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = NONE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 11.8KG
BASIN AREA = 2.0KM**2

* * *
* SAMPLE * 81G0228 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
 ----- -EASTING 429300E -----
 -NORTHNG 790800N
 NTS- 105G01 G

 * * *
 * SAMPLE * 81G0229 *
 * * *

SAMPLE 81G0229 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 5.14 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 8600 | 1.6 | 72 | 172 | 1 | 540 | 16 | 90 | NSS | 3.50 | 490 | 66 | NSS | | 7230 | 2.10 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 28.10 |
| -60 HP TOT | | 0.1 | 40 | 97 | 0.1 | 47 | 4 | | | 8.80 | 1020 | 27 | 1.6 | | | 19.07 |
| -35+60 IP OX | | 0.1 | 8 | 10 | 0.1 | 5 | 1 | | | .50 | 82 | 10 | | | | |
| -35+60 IP TOT | | 0.1 | 18 | 73 | 0.1 | 18 | 1 | | | 4.50 | 720 | 11 | | | | 2.74 |
| -80C TOT | 200 | 0.4 | 34 | 103 | 1 | 49 | 2 | 1 | | 3.30 | 538 | 11 | | | | |

STREAM WIDTH= 3.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.3M | GOOD | MODERATE | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 9.1KG
 BASIN AREA = 12.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0229 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
 ----- -EASTING 426700E ----- SAMPLERS : NM/
 -NORTHNG 789600N G
 NTS- 105G01

 * * *
 * SAMPLE * 81G0230 *
 * * *

SAMPLE 81G0230 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .84 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < | 20 | 1.02 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 6.44 |
| -60 HP TOT | | 0.1 | 35 | 58 | 0.1 | 34 | 5 | | | 8.30 | 1650 | 11 | 1 | | | 11.45 |
| -35+60 IP CX | | 0.2 | 7 | 8 | 0.1 | 4 | 1 | | | .65 | 120 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 19 | 130 | 0.1 | 18 | 1 | | | 8.85 | 1450 | 6 | | | | 33.52 |
| -80C TOT | 60 | 0.1 | 17 | 50 | 1 | 17 | 1 | 1 | | 1.90 | 421 | 7 | | | | |

STREAM WIDTH= 0.3M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= TAN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE EXOTIC TILL

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|------------------------|------------|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|--|--|
| ----- MODERATE(10-50%) | 2 | | | | | X | X | | | | | | | | | | |
| LITTLE(<10%) | 1 | X | X | X | X | X | X | X | | | | | | | | | |
| NONE | 0 | X | X | X | X | X | X | X | X | | | | | | | | |
| | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | | |

MAX. BOULDER SIZE= 2.4M
 SEDIMENT SORTING = MODERATE
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 13.6KG
 BASIN AREA = 9.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0230 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 426700E -----
-NORTHNG 789100N PROJECT G
NTS- 105G01

DATE SAMPLED: 23JUN81
SAMPLERS : NP/

* * *
* SAMPLE * 81G0231 *
* * *

SAMPLE 81G0231 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM | | | | | | | | | | | | | | | | 1.73 |
| -60 HM TOT | | | | | | | | | | | | | | | | 1.73 |
| -35+60 IM | | | | | | | | | | | | | | | | .20 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .20 |
| -60 HN TOT | 400 | 0.4 | 14 | 34 | 0.2 | 32 | 2 | 45 | 4 | 2.65 | 425 | 6 | 1.6 | | 10 | 7.38 |
| -35+60 IN | | | | | | | | | | | | | | | | 33.17 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 33.17 |
| -60 HP | | | | | | | | | | | | | | | | 22.42 |
| -60 HP TOT | | 0.1 | 18 | 57 | 0.1 | 34 | 3 | | | 5.15 | 820 | 6 | 0.2 | | | 22.42 |
| -35+60 IP | | | | | | | | | | | | | | | | 63.50 |
| -35+60 IP OX | | 0.1 | 3 | 5 | 0.1 | 13 | 1 | | | .30 | 41 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 4 | 46 | 0.1 | 20 | 1 | | | 3.35 | 525 | 4 | | | | 63.50 |
| -80C TOT | 10 | 0.1 | 8 | 40 | 0.2 | 27 | 1 | 1 | | 1.90 | 388 | 5 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= STEEP
----- DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= WHITE/LIG
SAMPLE SITE= POINT BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = MODERATE
LITTLE(<10%) 1 X X X X DECAYED ORGANICS = NONE
NONE 0 X X X X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.5KG
BASIN AREA = 6.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0231 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
-EASTING 427900E
-NORTHNG 789400N
NTS- 105G01

SAMPLERS : DC/

* * *
* SAMPLE * 81G0232 *
* * *

SAMPLE 81G0232 A S S A Y R E S U L T S

Table with columns: TEST, SA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPM, WT G. Rows include various tests like HM, IM, HN, HP, IP, OX, TOT.

STREAM WIDTH= 1.5M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN
SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS, = NONE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 10.9KG
BASIN AREA = 3.0KM**2

* * *
* SAMPLE * 81G0232 *
* * *

EX033

H E A V Y M I N E R A L S

2CMAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 428600E -----
-NORTHNG 789700N
NTS- 105G01

SAMPLERS : CH/

* * *
* SAMPLE * 81G0233 *
* * *

SAMPLE 81G0233 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.12 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .02 |
| -60 HN TOT | 900 | 0.2 | 28 | 96 | 0.2 | 20 | 4 | 35 | 4 | 4.90 | 840 | 12 | 1.6 | < | 10 | 11.61 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.35 |
| -60 HP TOT | | 0.1 | 31 | 125 | 0.7 | 15 | 3 | | | 6.45 | 1420 | 5 | 0.2 | | | 36.25 |
| -35+60 IP OX | | 0.1 | 10 | 45 | 0.5 | 4 | 1 | | | .85 | 175 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 22 | 212 | 0.5 | 10 | 1 | | | 7.10 | 1100 | 7 | | | | 17.88 |
| -80C TOT | 160 | 0.3 | 22 | 264 | 1 | 27 | 2 | 1 | | 1.70 | 571 | 4 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= MODERATE
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | GOOD | MCDERATE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.0KG
BASIN AREA = 10.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0233 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 434400E -----
 -NORTHNG 789600N
 NTS- 105G01 G

DATE SAMPLED: 23JUN81
 SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0234 *
 * * *

SAMPLE 81G0234 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM | | | | | | | | | | | | | | | | .54 |
| -60 HM TOT | | | | | | | | | | | | | | | | .54 |
| -35+60 IM | | | | | | | | | | | | | | | | .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | >50000 | 0.6 | 2 | 120 | 0.4 | 30 | 4 | 90 | 24 | 1.50 | 650 | 30 | 1.6 | | 10 | 10.06 |
| -35+60 IN | | | | | | | | | | | | | | | | 2.67 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.67 |
| -60 HP | | | | | | | | | | | | | | | | 10.57 |
| -60 HP TOT | | 0.9 | 50 | 520 | 4.3 | 80 | 9 | | | 9.15 | 3630 | 65 | 8.8 | | | 10.57 |
| -35+60 IP | | | | | | | | | | | | | | | | 14.90 |
| -35+60 IP OX | | 0.1 | 13 | 210 | 1.8 | 15 | 1 | | | 1.40 | 250 | 25 | | | | |
| -35+60 IP TOT | | 0.2 | 31 | 740 | 3.6 | 67 | 1 | | | 6.55 | 950 | 60 | | | | 14.90 |
| -80C TOT | 400 | 1.1 | 34 | 420 | 1 | 50 | 14 | 1 | | 2.40 | 609 | 25 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | MODERATE | LOW | = | = |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 11.4KG
 BASIN AREA = 33.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0234 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 437900E -----
-NORTHNG 790000N PROJECT G
NTS- 105G01

DATE SAMPLED: 23JUN81
SAMPLERS : DC/

* * * * *
* SAMPLE * 81G0235 *
* * * * *

SAMPLE 81G0235 ----- A S S A Y R E S U L T S -----

| TEST | SA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .06 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | >50000 | 4.8 | 70 | 1500 | 19.6 | 290 | 10 | NSS | NSS | 3.50 | 505 | 204 | NSS | | 40 | 1.75 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.84 |
| -60 HP TOT | | 7.5 | 1500 | 4600 | 45 | 760 | 34 | | | 31.00 | 1720 | 230 | 47 | | | 4.97 |
| -35+60 IP OX | | 0.1 | 102 | 630 | 15.4 | 77 | 3 | | | 2.00 | 150 | 23 | | | | |
| -35+60 IP TOT | | 2 | 375 | 3800 | 32 | 450 | 20 | | | 15.00 | 1800 | 110 | | | | 14.20 |
| -80C TOT | 260 | 1.3 | 107 | 1330 | 12.8 | 233 | 12 | 1 | | 3.50 | 1231 | 52 | | | | |

STREAM WIDTH= 0.3M WATER LEVEL= LOW FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.0M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= WHITE/LIGHTBROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= BRAIDED SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X X X X SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 X X X X DECAYED ORGANICS = NONE
 NONE 0 X X X X CLAY GJ-SORTING PARAMETER =
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.3KG
BASIN AREA = 1.0KM**2

NTS-105G01

* * * * *
* SAMPLE * 81G0235 *
* * * * *

EXG33

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 433400E -----
-NORTHNG 788100N G
NTS- 105G01

DATE SAMPLED: 23JUN81
SAMPLERS : DC/

* * * * *
* SAMPLE * 81G0236 *
* * * * *

SAMPLE 81G0236 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .28 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | NSS | 0.8 | 4 | 272 | 1.6 | 88 | 4 | NSS | NSS | 3.00 | 370 | 20 | NSS | < | 10 | 1.41 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.10 |
| -60 HP TOT | | 2.3 | 120 | 1300 | 11.8 | 350 | 26 | | | 25.50 | 1170 | 170 | 19.2 | | | 2.64 |
| -35+60 IP OX | | 0.1 | 13 | 340 | 3.6 | 42 | 3 | | | 1.60 | 420 | 14 | | | | |
| -35+60 IP TOT | | 0.1 | 39 | 1200 | 6.8 | 200 | 9 | | | 12.00 | 1150 | 67 | | | | 13.74 |
| -80C TOT | 250 | 0.7 | 25 | 754 | 6 | 135 | 11 | 1 | | 3.50 | 987 | 34 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.0M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= BRAIDED SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X X X X SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 X X X X DECAYED ORGANICS = NONE
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.6KG
BASIN AREA = 5.0KM**2

NTS-105G01

* * * * *
* SAMPLE * 81G0236 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 433800E -----
-NORTHNG 787300N
NTS- 105G01 G

DATE SAMPLED: 23JUN81
SAMPLERS : CH/

* * *
* SAMPLE * 81G0237 *
* * *

SAMPLE 81G0237 ----- A S S A Y R E S U L T S -----

| TEST | SA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .81 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | >50000 | 2 | 2 | 660 | 6.8 | 84 | 12 | 2 | 32 | 3.45 | 1360 | 118 | 5.6 | | 50 | 25.46 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 10.42 |
| -60 HP TOT | | 6.8 | 160 | 3400 | 32 | 410 | 34 | | | 27.50 | 3000 | 500 | 58 | | | 14.34 |
| -35+60 IP CX | | 0.1 | 24 | 1125 | 13.2 | 43 | 1 | | | 2.30 | 490 | 59 | | | | |
| -35+60 IP TOT | | 2.8 | 76 | 3300 | 29 | 310 | 26 | | | 17.00 | 1100 | 350 | | | | 17.72 |
| -80C TOT | 1500 | 1 | 25 | 655 | 4 | 60 | 12 | 1 | | 2.20 | 415 | 45 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= POINT BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NOT CERTAIN FE HYDROXIDES/RUST
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.9M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = GOOD
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.7KG
BASIN AREA = 4.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0237 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT
----- -EASTING 43330DE
-NORTHNG 786800N
NTS- 105G01

DATE SAMPLED: 23JUN81
SAMPLERS : DC/

* * * * *
* SAMPLE * 81G0238 *
* * * * *

SAMPLE 81G0238 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .38 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 45000 | 0.4 | 64 | 170 | 1.6 | 140 | 6 | 170 | 36 | 4.10 | 685 | 92 | 2.4 | | 10 | 4.74 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.17 |
| -60 HP TOT | | 0.1 | 43 | 165 | 2.2 | 40 | 6 | | | 5.90 | 3070 | 22 | 1.4 | | | 13.10 |
| -35+60 IP OX | | 0.1 | 9 | 80 | 1.2 | 10 | 1 | | | .80 | 140 | 9 | | | | |
| -35+60 IP TOT | | 0.2 | 23 | 233 | 1.7 | 26 | 4 | | | 4.55 | 800 | 14 | | | | 27.21 |
| -80C TOT | 290 | 0.2 | 16 | 324 | 3.5 | 36 | 4 | 1 | | 1.20 | 498 | 9 | | | | |

STREAM WIDTH= 2.7M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|------------------------|------------|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|--|--|--|
| ----- MODERATE(10-50%) | 2 | X | X | | | | X | X | | | | | | | | | |
| LITTLE(<10%) | 1 | X | X | X | X | X | X | X | | | | | | | | | |
| NONE | 0 | X | X | X | X | X | X | X | | | | | | | | | |
| | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = VERY POOR
 DECAYED ORGANICS = NONE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.9KG
BASIN AREA = 19.0KM**2

NTS-105G01

* * * * *
* SAMPLE * 81G0238 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 432100E -----
-NORTHNG 785900N G
NTS- 105G01

DATE SAMPLED: 23JUN81
SAMPLERS : NP/

* * * * *
* SAMPLE * 81G0239 *
* * * * *

SAMPLE 81G0239 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | < .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 50000 | 0.4 | 18 | 138 | 1.4 | 112 | 6 | 300 | NSS | 3.50 | 800 | 106 | 3 | < 10 | | 2.48 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 5.10 |
| -60 HP TOT | | 0.2 | 45 | 320 | 3.9 | 50 | 6 | | | 7.30 | 3170 | 35 | 3.6 | | | 7.65 |
| -35+60 IP OX | | 0.1 | 6 | 79 | 1.1 | 8 | 1 | | | .60 | 175 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 19 | 233 | 1.4 | 38 | 2 | | | 4.00 | 795 | 9 | | | | 84.49 |
| -80C TOT | 190 | 0.4 | 16 | 357 | 3.3 | 47 | 8 | 1 | | 1.80 | 810 | 22 | | | | |

STREAM WIDTH= 2.7M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | | X | | X | | X | | X | | | | | | |
| | LITTLE(<10%) | 1 | | X | | X | | X | | X | | | | | | | |
| | NONE | 0 | | X | | X | | X | | X | | X | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = MODERATE
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.9KG
BASIN AREA = 9.0KM**2

NTS-105G01

* * * * *
* SAMPLE * 81G0239 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
 ----- -EASTING 432600E -----
 -NORTHNG 785800N
 NTS- 105G01 G

 * * *
 * SAMPLE * 81G0240 *
 * * *

SAMPLE 81G0240 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .21 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | 2 | 4 | 440 | 2.4 | 292 | 8 | NSS | NSS | 3.30 | 315 | 192 | NSS | < | 10 | 1.46 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.23 |
| -60 HP TOT | | 0.8 | 63 | 230 | 3.2 | 100 | 10 | | | 7.28 | 4980 | 45 | 2.2 | | | 3.50 |
| -35+60 IP OX | | 0.1 | 19 | 95 | 1.8 | 20 | 2 | | | 1.50 | 255 | 23 | | | | |
| -35+60 IP TOT | | 0.5 | 38 | 388 | 2.7 | 78 | 7 | | | 5.35 | 915 | 33 | | | | 8.75 |
| -80C TOT | 310 | 0.4 | 24 | 245 | 1.4 | 60 | 7 | 1 | | 1.90 | 293 | 16 | | | | |

STREAM WIDTH= 2.7M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | POOR | HIGH | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 11.4KG
 BASIN AREA = 7.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0240 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 443500E -----
-NORTHNG 780700N G
NTS- 105G01

DATE SAMPLED: 23JUN81
SAMPLERS : DC/

* * * * *
* SAMPLE * 81G0241 *
* * * * *

SAMPLE 81G0241 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .10 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | NSS | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < 25 | | .75 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.56 |
| -60 HP TOT | | 0.8 | 90 | 460 | 2.3 | 180 | 9 | | | 15.00 | 2440 | 135 | 8 | | | 2.20 |
| -35+60 IP OX | | 0.1 | 13 | 153 | 0.9 | 23 | 1 | | | 1.85 | 1000 | 17 | | | | |
| -35+60 IP TOT | | 0.1 | 59 | 710 | 1.2 | 120 | 5 | | | 12.00 | 2150 | 90 | | | | 15.89 |
| -80C TOT | 120 | 0.3 | 18 | 221 | 0.2 | 38 | 4 | 1 | | 2.80 | 1106 | 32 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= MODERATE
----- DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= TAN
SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.0M
----- MODERATE(10-50%) 2 X X X X SEDIMENT SORTING = MODERATE
LITTLE(<10%) 1 X X X X DECAYED ORGANICS = NONE
NONE 0 X X X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 12.3KG
BASIN AREA = 24.0KM**2

NTS-105G01

* * * * *
* SAMPLE * 81G0241 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
 ----- -EASTING 443300E -----
 -NORTHNG 780200N
 NTS- 105G01

DATE SAMPLED: 23JUN81
 SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0242 *
 * * *

SAMPLE 81G0242 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .08 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 25 | .71 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.46 |
| -60 HP TOT | | 1 | 130 | 270 | 2.1 | 280 | 14 | | | 14.30 | 3880 | 105 | 3.6 | | | 2.25 |
| -35+60 IP OX | | 0.1 | 16 | 68 | 0.7 | 43 | 1 | | | 1.00 | 340 | 5 | | | | |
| -35+60 IP TOT | | 0.2 | 43 | 252 | 0.7 | 120 | 3 | | | 6.05 | 1200 | 22 | | | | 12.81 |
| -80C TOT | 240 | 0.3 | 29 | 184 | 1 | 97 | 8 | 1 | | 2.10 | 592 | 11 | | | | |

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 1.5M |
| ----- | MODERATE(10-50%) | 2 | | X | X | X | X | | | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | X | X | X | X | X | | | X | | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | | | X | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 7.7KG
 BASIN AREA = 42.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0242 *
 * * *

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
 ----- -EASTING 440000E -----
 -NORTHNG 779300N
 NTS- 105G01 G

 * * *
 * SAMPLE * 81G0243 *
 * * *

SAMPLE 81G0243 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | < .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < | 20 | .65 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 12.75 |
| -60 HP TOT | | 0.1 | 44 | 45 | 0.3 | 15 | 4 | | | 4.60 | 3200 | 5 | 0.2 | | | 2.73 |
| -35+60 IP OX | | 0.1 | 3 | 13 | 0.1 | 3 | 1 | | | .40 | 110 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 17 | 52 | 0.1 | 5 | 1 | | | 3.35 | 650 | 4 | | | | 49.41 |
| -80C TOT | 120 | 0.1 | 15 | 60 | 1 | 14 | 2 | 1 | | 1.30 | 433 | 5 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|--|---|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | X | X | X | X | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | | | X | | | | | | | |
| | NONE | 0 | X | X | X | X | X | | | X | | | X | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 13.6KG
 BASIN AREA = 13.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0243 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 08 PROJECT
----- -EASTING 596200E -----
-NORTHNG 906600N
NTS- 105K06

DATE SAMPLED: 10JUN81
SAMPLERS : CH/DC

* * *
* SAMPLE * 81G0044 *
* * *

SAMPLE 81G0044 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -20+35 HN TOT | 400 | 0.2 | 118 | 68 | 0.2 | 18 | 4 | | | 2.40 | 470 | 114 | | | | |
| -60 HP TOT | | 0.1 | 38 | 135 | 0.1 | 11 | 1 | | | 7.05 | 1690 | 5 | 0.2 | | | |

STREAM WIDTH= 3.0M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
----- DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKORANGE

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | | | | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | | | | | | | | | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= DUPLICATE
----- WEIGHT=
BASIN AREA = 11.0KM**2

NTS-105K06

* * *
* SAMPLE * 81G0044 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
-EASTING 442500E SAMPLERS : CH/
-NORTHNG 784300N G
NTS- 105G01

* * *
* SAMPLE * 81G0245 *
* * *

SAMPLE 81G0245

A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include tests like -60 HM TOT, -35+60 IM TOT, etc.

STREAM WIDTH= 1.5M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
DEPTH= 0.7M
PH = SUSPENDED MATTER= FLOATING ORGANICS WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
MODERATE(10-50%) 2 SEDIMENT SORTING = VERY POOR
LITTLE(<10%) 1 DECAYED ORGANICS = HIGH
NONE 0 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 6.8KG
BASIN AREA = 9.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0245 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
 ----- -EASTING 446200E -----
 -NORTHNG 782200N
 NTS- 105G01 G

DATE SAMPLED: 23JUN81
SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0246 *
 * * *

SAMPLE 81G0246 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .11 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 2800 | 0.2 | 118 | 90 | 0.2 | 60 | 12 | 1000 | NSS | 2.55 | 460 | 6 | NSS | < | 10 | 1.94 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 7.10 |
| -60 HP TOT | | 0.5 | 115 | 140 | 1.2 | 135 | 7 | | | 10.60 | 3120 | 38 | 2.6 | | | 6.95 |
| -35+60 IP CX | | 0.1 | 9 | 23 | 0.2 | 15 | 1 | | | .70 | 310 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 39 | 78 | 0.2 | 46 | 1 | | | 3.80 | 705 | 9 | | | | 34.26 |
| -80C TOT | 290 | 0.3 | 33 | 93 | 1 | 64 | 5 | 1 | | 2.00 | 440 | 9 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.3M |
| ----- | MODERATE(10-50%) | 2 | | X | X | | | | | | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<<10%) | 1 | X | X | X | X | X | X | X | X | | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 12.3KG
 BASIN AREA = 9.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0246 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 436200E - - - - -
-NORTHNG 781700N G
NTS- 105G01

DATE SAMPLED: 23JUN81
SAMPLERS : NP/

* * *
* SAMPLE * 81G0247 *
* * *

SAMPLE 81G0247 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .60 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 6100 | 4 | 72 | 720 | 19 | 620 | 12 | 185 | 40 | 5.20 | 850 | 250 | 2.4 | | 370 | 3.87 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .90 |
| -60 HP TOT | | 4.8 | 250 | 650 | 15.6 | 350 | 17 | | | 19.80 | 8700 | 170 | 2.6 | | | 8.47 |
| -35+60 IP OX | | 0.1 | 20 | 245 | 1.7 | 50 | 1 | | | 1.00 | 810 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 40 | 450 | 1.9 | 100 | 2 | | | 4.30 | 1250 | 17 | | | | 9.62 |
| -80C TOT | 160 | 0.3 | 34 | 624 | 3 | 140 | 5 | 1 | | 1.90 | 969 | 8 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= STEEP
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.9M | POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.1KG
BASIN AREA = 7.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0247 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
----- -EASTING 429700E -----
-NORTHNG 781400N
NTS- 105G01

SAMPLERS : NP/

* * *
* SAMPLE * 81G0248 *
* * *

SAMPLE 81G0248 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .07 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < | 20 | .69 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 8.62 |
| -60 HP TOT | | 0.1 | 54 | 110 | 0.5 | 38 | 7 | | | 10.20 | 3530 | 22 | 1.2 | | | 7.58 |
| -35+60 IP OX | | 0.1 | 6 | 23 | 0.2 | 6 | 2 | | | .50 | 170 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 21 | 57 | 0.3 | 11 | 2 | | | 3.50 | 725 | 5 | | | | 129.48 |
| -80C TOT | 100 | 0.2 | 11 | 56 | 0.2 | 14 | 6 | 1 | | 1.10 | 524 | 3 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | | | | X | X | X | | | | | | | | |
| | LITTLE(<10%) | 1 | | | | X | X | X | X | | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = MODERATE
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 11.8KG
BASIN AREA = 7.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0248 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 23JUN81
-EASTING 429200E -NORTHNG 781200N
NTS- 105G01

SAMPLERS : NM/

* * *
* SAMPLE * 81G0249 *
* * *

SAMPLE 81G0249 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, TOT.

STREAM WIDTH= 3.6M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= STEEP
DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN GREY

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= BRAID/MEANDR SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.9M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 10.5KG
BASIN AREA = 8.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0249 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 430000E -----
 -NORTHNG 779300N
 NTS- 105G01 G

DATE SAMPLED: 24JUN81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0251 *
 * * *

SAMPLE 81G0251 ----- A S S A Y: R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .58 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 650 | 3 | 160 | 320 | 5.2 | 540 | 42 | 600 | 36 | 7.50 | 410 | 64 | 2.4 | | 50 | 3.91 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.65 |
| -60 HP TOT | | 1.2 | 95 | 230 | 2.4 | 185 | 12 | | | 11.00 | 8100 | 50 | 1 | | | 11.32 |
| -35+60 IP OX | | 0.1 | 19 | 125 | 1.1 | 85 | 1 | | | .55 | 590 | 11 | | | | |
| -35+60 IP TOT | | 0.1 | 32 | 243 | 0.6 | 110 | 1 | | | 4.20 | 1250 | 14 | | | | 75.91 |
| -80C TOT | 40 | 0.2 | 34 | 296 | 0.8 | 195 | 3 | 1 | | 1.40 | 657 | 18 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | POOR | NONE | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.5KG
 BASIN AREA = 13.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0251 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
 ----- -EASTING 428900E ----- SAMPLERS : NM/
 -NORTHNG 778000N G
 NTS- 105G01

 * * *
 * SAMPLE * 81G0252 *
 * * *

SAMPLE 81G0252 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .73 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 1500 | 11 | 96 | 120 | 0.2 | 150 | 22 | 620 | NSS | 5.10 | 450 | 28 | 2.4 | | 8000 | 2.76 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.95 |
| -60 HP TOT | | 0.6 | 86 | 110 | 0.8 | 90 | 9 | | | 10.00 | 7450 | 25 | 0.6 | | | 18.32 |
| -35+60 IP OX | | 0.1 | 14 | 45 | 0.3 | 24 | 1 | | | .50 | 185 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 30 | 125 | 0.1 | 36 | 1 | | | 4.05 | 860 | 7 | | | | 63.65 |
| -80C TOT | 20 | 0.1 | 20 | 130 | 0.2 | 64 | 3 | 1 | | 1.20 | 357 | 8 | | | | |

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
 ----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = POOR
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = MODERATE
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 14.1KG
 BASIN AREA = 43.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0252 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 439000E
-NORTHNG 777500N
NTS- 105G01

PROJECT

G

DATE SAMPLED: 24JUN81
SAMPLERS : NM/

* * * * *
* SAMPLE * 81G0253 *
* * * * *

SAMPLE
81G0253

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .63 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 7000 | 1.8 | 40 | 40 | 0.2 | 64 | 4 | 350 | 32 | 4.00 | 440 | 44 | 1.6 | | 640 | 6.02 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.37 |
| -60 HP TOT | | 0.1 | 45 | 70 | 0.1 | 32 | 3 | | | 6.25 | 6400 | 29 | 0.4 | | | 13.88 |
| -35+60 IP 0X | | 0.1 | 9 | 16 | 0.1 | 5 | 1 | | | .60 | 100 | 9 | | | | |
| -35+60 IP TOT | | 0.1 | 20 | 88 | 0.1 | 13 | 1 | | | 4.05 | 795 | 11 | | | | 19.66 |
| -80C TOT | 70 | 0.1 | 24 | 151 | 0.8 | 24 | 2 | 1 | | 1.80 | 349 | 18 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING= POGR
 LITTLE(<10%) 1 X X X X X X DECAYED ORGANICS = MODERATE
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.9KG
BASIN AREA = 8.0KM**2

NTS-105G01

* * * * *
* SAMPLE * 81G0253 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
----- -EASTING 427600E -----
-NORTHNG 776000N PROJECT G
NTS- 105G01

DATE SAMPLED: 24JUN81
SAMPLERS : CH/

* * *
* SAMPLE * 81G0254 *
* * *

SAMPLE 81G0254 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .24 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 400 | 0.4 | 26 | 46 | 0.2 | 36 | 2 | 50 | 24 | 2.95 | 435 | 46 | 1.6 | < | 10 | 5.27 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.49 |
| -60 HP TOT | | 0.1 | 45 | 90 | 0.3 | 32 | 1 | | | 8.00 | 8800 | 3 | 0.4 | | | 12.86 |
| -35+60 IP OX | | 0.1 | 4 | 9 | 0.1 | 3 | 1 | | | .65 | 67 | 12 | | | | |
| -35+60 IP TOT | | 0.1 | 16 | 62 | 0.1 | 20 | 1 | | | 3.90 | 650 | 22 | | | | 60.45 |
| -80C TOT | 20 | 0.1 | 15 | 58 | 0.2 | 15 | 1 | 1 | | 1.90 | 349 | 19 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= STEEP
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | MAX. BOULDER SIZE= 1.2M |
| ----- | MODERATE(10-50%) | 2 | X | X | X | | | | | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.3KG
BASIN AREA = 6.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0254 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT DATE SAMPLED: 24JUN81
 ----- -EASTING 425400E -----
 -NORTHNG 774600N
 NTS- 105G01 PROJECT G SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0255 *
 * * *

SAMPLE 81G0255 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .62 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 1100 | 0.4 | 56 | 90 | 0.2 | 166 | 8 | 220 | 12 | 3.50 | 450 | 170 | 0.8 | < | 10 | 3.61 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 29.48 |
| -60 HP TOT | | 0.3 | 60 | 105 | 0.6 | 58 | 4 | | | 7.40 | 5800 | 19 | 0.2 | | | 21.89 |
| -35+60 IP OX | | 0.1 | 14 | 37 | 0.1 | 12 | 1 | | | .80 | 240 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 28 | 115 | 0.2 | 27 | 1 | | | 4.30 | 940 | 10 | | | | 132.78 |
| -80C TOT | 30 | 0.1 | 19 | 140 | 0.2 | 47 | 2 | 1 | | 1.50 | 431 | 11 | | | | |

STREAM WIDTH= 5.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= POINT BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X X X
 LITTLE(<10%) 1 X X X X
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 SEDIMENT SORTING = MODERATE
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 14.1KG
 BASIN AREA = 68.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0255 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
-EASTING 424800E SAMPLERS : NP/
-NORTHNG 775300N G
NTS- 105G01

* * *
* SAMPLE * 81G0256 *
* * *

SAMPLE 81G0256 ASSAY RESULTS

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, TOT.

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= CENTER
PRECIPITATE OR STAIN= NONE CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = MODERATE
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 9.5KG
BASIN AREA = 5.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0256 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
----- -EASTING 423100E -----
-NORTHNG 778300N
NTS- 105G01

SAMPLERS : CH/

* * *
* SAMPLE * 81G0257 *
* * *

SAMPLE 81G0257 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .50 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 350 | 0.8 | 78 | 44 | 0.2 | 48 | 10 | 320 | 8 | 3.80 | 450 | 44 | 1.6 | < | 10 | 4.75 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.68 |
| -60 HP TOT | | 0.1 | 23 | 40 | 0.2 | 23 | 3 | | | 5.40 | 2600 | 6 | 0.1 | | | 42.46 |
| -35+60 IP OX | | 0.1 | 10 | 13 | 0.1 | 5 | 1 | | | .50 | 79 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 30 | 58 | 0.1 | 14 | 1 | | | 2.90 | 555 | 6 | | | | 66.68 |
| -80C TOT | 40 | 0.2 | 26 | 73 | 0.6 | 29 | 2 | 1 | | 1.60 | 269 | 10 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
 ----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = GOOD
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = MODERATE
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.0KG
BASIN AREA = 7.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0257 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
-EASTING 422800E SAMPLERS : DC/
-NORTHNG 781600N G
NTS- 105G01

* * *
* SAMPLE * 81G0258 *
* * *

SAMPLE 81G0258 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, and -80C TOT.

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= TORRENT TURBULENCE= HIGH GRADIENT= STEEP
DEPTH= 0.5M
PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR GREEN SEDIMENT COLOR= GREY BROWN
SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.9M
MODERATE(10-50%) 2 X X SEDIMENT SORTING = VERY POOR
LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = NONE
NONE 0 X X X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 8.6KG
BASIN AREA = 5.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0258 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE G9 PROJECT
----- -EASTING 422000E -----
-NORTHNG 782000N
NTS- 105G01

DATE SAMPLED: 24JUN81
SAMPLERS : DC/

* * *
* SAMPLE * 81G0259 *
* * *

SAMPLE 81G0259 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 5.64 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | 3.03 |
| -60 HN TOT | 700 | 0.2 | 8 | 28 | 0.2 | 50 | 2 | 170 | 2 | 2.50 | 460 | 10 | 0.4 | | 650 | 6.07 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 66.48 |
| -60 HP TOT | | 0.1 | 11 | 100 | 0.1 | 22 | 5 | | | 6.60 | 1160 | 3 | 0.2 | | | 38.98 |
| -35+60 IP OX | | 0.1 | 2 | 6 | 0.1 | 6 | 1 | | | .55 | 52 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 4 | 48 | 0.1 | 20 | 1 | | | 4.10 | 655 | 7 | | | | 233.69 |
| -80C TOT | 10 | 0.1 | 11 | 71 | 0.4 | 36 | 2 | 2 | | 2.70 | 372 | 12 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= TORRENT TURBULENCE= HIGH GRADIENT= STEEP
----- DEPTH= 0.7M
PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR GREY SEDIMENT COLOR= GREY BROWN

SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | X | X | X | X | X | X | X | 1.2M | VERY POOR | NONE | = | = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 13.2KG
BASIN AREA = 12.0KM**2

NTS-105G01

* * *
* SAMPLE * 81G0259 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
 ----- -EASTING 420500E ----- SAMPLERS : NP/
 -NORTHNG 782300N
 NTS- 105G01 G

 * * *
 * SAMPLE * 81G0260 *
 * * *

SAMPLE 81G0260 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.86 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .09 |
| -60 HN TOT | 12400 | 1.6 | 10 | 36 | 0.2 | 124 | 2 | 140 | 8 | 2.36 | 356 | 12 | 0.2 | < 10 | | 11.65 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 34.94 |
| -60 HP TOT | | 0.1 | 21 | 150 | 0.1 | 40 | 2 | | | 6.50 | 1660 | 7 | 0.8 | | | 21.43 |
| -35+60 IP OX | | 0.1 | 2 | 11 | 0.1 | 10 | 1 | | | .37 | 50 | 5 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 38 | 0.1 | 25 | 1 | | | 2.25 | 440 | 9 | | | | 55.25 |
| -80C TOT | 90 | 0.2 | 9 | 85 | 0.6 | 40 | 2 | 1 | | 2.20 | 332 | 14 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | | | X | X | X | | | | | | | | SEDIMENT SORTING = GOOD |
| | LITTLE(<10%) | 1 | | | X | X | X | X | X | | | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 11.4KG
 BASIN AREA = 14.0KM**2

NTS-105G01

 * * *
 * SAMPLE * 81G0260 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 418300E
-NORTHNG 785200N
NTS- 105G02

PROJECT

G

DATE SAMPLED: 24JUN81
SAMPLERS : NM/

* * * * *
* SAMPLE * 81G0261 *
* * * * *

SAMPLE
81G0261

A S S A Y

R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .77 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 2700 | 0.2 | 74 | 72 | 1 | 166 | 2 | 800 | 2 | 3.00 | 456 | 10 | 0.4 | | 4610 | 4.36 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 8.15 |
| -60 HP TOT | | 0.8 | 180 | 500 | 2 | 80 | 5 | | | 7.80 | 1880 | 33 | 2 | | | 11.89 |
| -35+60 IP OX | | 0.1 | 19 | 55 | 0.3 | 16 | 1 | | | 1.03 | 300 | 10 | | | | |
| -35+60 IP TOT | | 0.1 | 35 | 152 | 0.4 | 37 | 1 | | | 4.15 | 740 | 14 | | | | 30.47 |
| -80C TOT | 190 | 0.4 | 24 | 153 | 1.4 | 48 | 4 | 1 | | 3.00 | 432 | 12 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN BLACK/DAR

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.3M |
| ----- | MODERATE(10-50%) | 2 | | X | X | X | | | | | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.5KG
BASIN AREA = 5.0KM**2

NTS-105G02

* * * * *
* SAMPLE * 81G0261 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION- UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
----- -EASTING 417200E -----
-NORTHNG 785100N
NTS- 105G02

SAMPLERS : CH/

* * *
* SAMPLE * 81G0262 *
* * *

SAMPLE 81G0262 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 23.47 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .21 |
| -60 HN TOT | 4500 | 4.4 | 16 | 390 | 4.2 | 5700 | 6 | 800 | 176 | 4.50 | 335 | 24 | 0.4 | | 15400 | 8.67 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 21.07 |
| -60 HP TOT | | 0.5 | 22 | 360 | 1.2 | 710 | 6 | | | 10.00 | 1630 | 24 | 0.6 | | | 63.14 |
| -35+60 IP OX | | 0.1 | 2 | 140 | 0.2 | 147 | 1 | | | .90 | 103 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 290 | 0.2 | 360 | 1 | | | 4.90 | 445 | 11 | | | | 98.45 |
| -80C TOT | 80 | 0.2 | 9 | 390 | 0.8 | 759 | 5 | 1 | | 3.70 | 370 | 13 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY
 SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.6M | MODERATE | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.6KG
BASIN AREA = 6.0KM**2

NTS-105G02

* * *
* SAMPLE * 81G0262 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 415500E -----
-NORTHNG 789100N
NTS- 105G02

DATE SAMPLED: 24JUN81
SAMPLERS : NP/

* * *
* SAMPLE * 81G0263 *
* * *

SAMPLE 81G0263 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .30 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .07 |
| -60 HN TOT | NSS | NSS | NSS | NSS | 0.2 | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | | 71 | .91 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 13.37 |
| -60 HP TOT | | 0.1 | 27 | 105 | 0.2 | 55 | 4 | | | 6.70 | 4330 | 10 | 0.4 | | | 2.83 |
| -35+60 IP OX | | 0.1 | 2 | 16 | 0.1 | 9 | 1 | | | .70 | 185 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 3 | 62 | 0.1 | 18 | 1 | | | 3.65 | 630 | 5 | | | | 54.96 |
| -80C TOT | 60 | 0.1 | 9 | 75 | 0.2 | 29 | 2 | 1 | | 2.00 | 466 | 4 | | | | |

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
 ----- DEPTH= 0.7M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = GOOD
 LITTLE(<10%) 1 X X DECAYED ORGANICS = NONE
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 12.7KG
BASIN AREA = 64.0KM**2

NTS-105G02

* * *
* SAMPLE * 81G0263 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT
 ----- -EASTING 419500E -----
 -NORTHNG 792000N G
 NTS- 105GG7

DATE SAMPLED: 24JUN81
 SAMPLERS : GM/

 * * *
 * SAMPLE * 81G0264 *
 * * *

SAMPLE 81G0264 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 3.42 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 3200 | 0.4 | 30 | 54 | 0.2 | 132 | 2 | 400 | 28 | 3.90 | 478 | 32 | 0.2 | 2310 | | 5.91 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 17.01 |
| -60 HP TOT | | 0.2 | 33 | 130 | 0.1 | 64 | 5 | | | 9.00 | 2230 | 17 | 1 | | | 11.36 |
| -35+60 IP OX | | 0.1 | 3 | 16 | 0.1 | 10 | 1 | | | .63 | 95 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 72 | 0.1 | 30 | 1 | | | 4.20 | 780 | 5 | | | | 52.27 |
| -80C TOT | 80 | 0.2 | 15 | 96 | 0.5 | 36 | 2 | 1 | | 2.80 | 466 | 9 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
 ----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = POOR
 LITTLE(<10%) 1 X X X X DECAYED ORGANICS = MODERATE
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 12.7KG
 BASIN AREA = 17.0KM**2

NTS-105G07

 * * *
 * SAMPLE * 81G0264 *
 * * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
-EASTING 422500E
-NORTHNG 795600N
NTS- 105G08

SAMPLERS : CH/

* * *
* SAMPLE * 81G0266 *
* * *

SAMPLE 81G0266 ASSAY RESULTS

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, HP TOT, IP OX, IP TOT, and TOT.

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

Table with columns: SEDIMENT, LOTS(>50%), MODERATE(10-50%), LITTLE(<10%), NONE, BOULDERS, COBBLES, PEBBLES, GRANULES, SAND, SILT, CLAY, MAX. BOULDER SIZE, SEDIMENT SORTING, DECAYED ORGANICS, GJ-SORTING PARAMETER, GJ-COARSENESS PARAMETER.

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 7.3KG
BASIN AREA = 5.0KM**2

* * *
* SAMPLE * 81G0266 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
----- -EASTING 422300E -SAMPLERS : CH/
-NORTHNG 796300N G
NTS- 105G08

* * *
* SAMPLE * 81G0267 *
* * *

SAMPLE 81G0267 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .64 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .02 |
| -60 HN TOT | 4700 | 2 | 76 | 148 | 0.2 | 140 | 2 | 335 | 176 | 2.10 | 680 | 4 | 0.8 | < 10 | | 4.25 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .36 |
| -60 HP TOT | | 0.3 | 26 | 135 | 0.4 | 50 | 3 | | | 7.50 | >10000 | 2 | 0.2 | | | 13.64 |
| -35+60 IP OX | | 0.1 | 24 | 51 | 0.1 | 13 | 1 | | | 2.60 | 455 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 39 | 265 | 0.1 | 78 | 1 | | | 8.35 | 1400 | 5 | | | | 2.58 |
| -80C TOT | 170 | 0.1 | 13 | 114 | 0.4 | 45 | 2 | 1 | | 2.10 | 426 | 3 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | X | X | X | X | X | X | | 1.5M | POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.6KG
BASIN AREA = 9.0KM**2

NTS-105G08

* * *
* SAMPLE * 81G0267 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9
----- -EASTING 412800E
-NORTHNG 792500N
NTS- 105G07

PROJECT

G

DATE SAMPLED: 24JUN81
SAMPLERS : NP/

* * *
* SAMPLE * 81G0268 *
* * *

SAMPLE 81G0268 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 5.28 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 2200 | 0.2 | 4 | 26 | 0.2 | 1060 | 2 | 2400 | NSS | 1.66 | 180 | 4 | NSS | < 10 | | 2.05 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.68 |
| -60 HP TOT | | 0.1 | 32 | 145 | 0.2 | 61 | 3 | | | 7.90 | 4660 | 3 | 0.2 | | | 7.27 |
| -35+60 IP OX | | 0.1 | 2 | 9 | 0.1 | 7 | 1 | | | .63 | 125 | 2 | | | | |
| -35+60 IP TOT | | 0.1 | 3 | 68 | 0.1 | 24 | 1 | | | 4.50 | 820 | 6 | | | | 51.34 |
| -80C TOT | 30 | 0.1 | 6 | 39 | 0.2 | 65 | 1 | 2 | | 1.50 | 246 | 3 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= HIGH GRADIENT= STEEP
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.0M | MODERATE | NONE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.5KG
BASIN AREA = 4.0KM**2

NTS-105G07

* * *
* SAMPLE * 81G0268 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
----- -EASTING 411400E -SAMPLERS : DC/
-NORTHNG 795100N G
NTS- 105G07

* * *
* SAMPLE * 81G0269 *
* * *

SAMPLE 81G0269 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 6.45 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .37 |
| -60 HN TOT | 950 | 0.4 | 12 | 46 | 0.2 | 96 | 2 | 200 | 2 | 3.04 | 500 | 8 | 0.2 | 2440 | | 13.22 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 8.34 |
| -60 HP TOT | | 0.1 | 15 | 120 | 0.3 | 30 | 3 | | | 5.70 | 4500 | 3 | 0.1 | | | 31.15 |
| -35+60 IP OX | | 0.1 | 5 | 30 | 0.1 | 14 | 1 | | | .72 | 150 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 58 | 0.1 | 19 | 1 | | | 3.75 | 590 | 9 | | | | 100.16 |
| -80C TOT | 110 | 0.1 | 14 | 73 | 1 | 30 | 1 | 1 | | 1.90 | 380 | 8 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= BRAID/MEANDR SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | | X | X | X | X | X | X | | | | | | |
| | LITTLE(<10%) | 1 | | X | X | X | X | X | X | X | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | X | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | |

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.5KG
BASIN AREA = 12.0KM**2

NTS-105G07

* * *
* SAMPLE * 81G0269 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 26JUN81
----- -EASTING 411700E -SAMPLERS : NM/
-NORTHNG 797500N G
NTS- 105G07

* * * * *
* SAMPLE * 81G0270 *
* * * * *

SAMPLE 81G0270 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|--------|
| -60 HM TOT | | | | | | | | | | | | | | | | 7.26 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .84 |
| -60 HN TOT | 2250 | 0.2 | 18 | 40 | 0.2 | 170 | 2 | 200 | 2 | 2.68 | 560 | 6 | 0.2 | < 10 | | 12.16 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 17.13 |
| -60 HP TOT | | 0.3 | 45 | 165 | 0.8 | 68 | 4 | | | 8.85 | >10000 | 23 | 0.2 | | | 20.37 |
| -35+60 IP CX | | 0.1 | 3 | 24 | 0.1 | 16 | 1 | | | .83 | 128 | 9 | | | | |
| -35+60 IP TOT | | 0.9 | 10 | 52 | 0.1 | 44 | 3 | | | 3.20 | 530 | 4 | | | | 114.92 |
| -80C TOT | 160 | 0.3 | 9 | 94 | 0.2 | 42 | 2 | 1 | | 2.90 | 503 | 23 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | X | X | | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = MODERATE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.9KG
BASIN AREA = 4.0KM**2

NTS-105G07

* * * * *
* SAMPLE * 81G0270 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 24JUN81
 ----- -EASTING 412700E -----
 -NORTHNG 797600N
 NTS- 105G07 G

DATE SAMPLED: 24JUN81
 SAMPLERS : NP/

 * * *
 * SAMPLE * 81G0271 *
 * * *

SAMPLE 81G0271 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 23.74 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .30 |
| -60 HN TOT | 1150 | 2.6 | 12 | 38 | 0.2 | 288 | 2 | 2100 | 20 | 1.26 | 312 | 4 | 0.2 | | 160 | 3.75 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 17.71 |
| -60 HP TOT | | 0.1 | 11 | 415 | 0.3 | 40 | 3 | | | 6.40 | 6280 | 3 | 0.1 | | | 17.84 |
| -35+60 IP OX | | 0.1 | 1 | 8 | 0.1 | 8 | 1 | | | .20 | 28 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 13 | 0.1 | 21 | 1 | | | 1.00 | 108 | 10 | | | | 353.99 |
| -80C TOT | 10 | 0.1 | 3 | 38 | 0.2 | 33 | 1 | 4 | | 1.50 | 254 | 2 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREEN GREY

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.3M |
| ----- | MODERATE(10-50%) | 2 | | X | X | X | X | X | X | X | X | X | X | X | X | X | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 11.4KG
 BASIN AREA = 6.0KM**2

NTS-105G07

 * * *
 * SAMPLE * 81G0271 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 26JUN81
 ----- -EASTING 414400E ----- SAMPLERS : NM/
 -NORTHNG 798400N G
 NTS- 105G07

 * * *
 * SAMPLE * 81G0272 *
 * * *

SAMPLE 51G0272 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 4.95 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .95 |
| -60 HN TOT | 8800 | 0.2 | 44 | 132 | 0.2 | 160 | 2 | 2600 | NSS | 2.60 | 550 | 14 | NSS | < 10 | | 2.06 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 60.67 |
| -60 HP TOT | | 0.2 | 17 | 560 | 0.6 | 72 | 4 | | | 8.30 | 5700 | 6 | 0.2 | | | 2.99 |
| -35+60 IP OX | | 0.1 | 2 | 31 | 0.1 | 5 | 1 | | | .35 | 66 | 1 | | | | |
| -35+60 IP TOT | | 0.1 | 1 | 65 | 0.2 | 11 | 1 | | | 1.85 | 300 | 3 | | | | 124.03 |
| -80C TOT | 110 | 0.1 | 10 | 143 | 1 | 25 | 1 | 4 | | 1.40 | 273 | 2 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= TAN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= VARIABLE MODERATE FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | X | X | | | | X | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = MODERATE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 13.2KG
 BASIN AREA = 9.0KM**2

NTS-105G07

 * * *
 * SAMPLE * 81G0272 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 26JUN81
----- -EASTING 414300E -----
-NORTHNG 798800N
NTS- 105G07

SAMPLERS : NM/

* * * * *
* SAMPLE * 81G0273 *
* * * * *

SAMPLE 81G0273 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .89 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 10000 | 1 | 56 | 406 | 2.6 | 590 | 2 | 1500 | 112 | 1.96 | 524 | 4 | 0.4 | | 280 | 5.08 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.79 |
| -60 HP TOT | | 0.5 | 85 | 480 | 2 | 205 | 6 | | | 10.00 | >10000 | 12 | 1 | | | 29.85 |
| -35+60 IP OX | | 0.1 | 20 | 125 | 0.2 | 42 | 1 | | | 1.45 | 350 | 2 | | | | |
| -35+60 IP TOT | | 0.2 | 34 | 375 | 0.1 | 146 | 2 | | | 5.90 | 1000 | 7 | | | | 23.98 |
| -80C TOT | 150 | 0.2 | 25 | 268 | 1 | 63 | 3 | 1 | | 2.40 | 586 | 7 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= TAN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= VARIABLE MODERATE FE HYDROXIDES/RUST
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | POOR | HIGH | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.9KG
BASIN AREA = 20.0KM**2

NTS-105G07

* * * * *
* SAMPLE * 81G0273 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 26JUN81
 ----- -EASTING 411900E ----- SAMPLERS : DC/
 -NORTHNG 800700N G
 NTS- 105G07

 * * *
 * SAMPLE * 81G0274 *
 * * *

SAMPLE 81G0274 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .70 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 1700 | 0.2 | 20 | 40 | 0.2 | 46 | 2 | 75 | 16 | 2.70 | 1110 | 6 | 0.8 | | 30 | 13.49 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.22 |
| -60 HP TOT | | 0.2 | 27 | 98 | 0.3 | 40 | 5 | | | 6.90 | >10000 | 6 | 0.1 | | | 24.07 |
| -35+60 IP OX | | 0.1 | 5 | 30 | 0.1 | 18 | 1 | | | 1.55 | 3450 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 14 | 108 | 0.1 | 47 | 3 | | | 5.60 | 3650 | 15 | | | | 13.11 |
| -80C TOT | 330 | 0.3 | 13 | 79 | 1 | 27 | 3 | 1 | | 2.90 | 2333 | 8 | | | | |

STREAM WIDTH= 7.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= BRAIDED SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= HEAVY FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | VERY POOR | NONE | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.5KG
 BASIN AREA = 17.0KM**2

NTS-105G07

 * * *
 * SAMPLE * 81G0274 *
 * * *

EXG33

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 411700E -----
 -NORTHNG 803000N
 NTS- 105G07

DATE SAMPLED: 26JUN81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0275 *
 * * *

SAMPLE 81G0275 ----- A S S A Y R E S U L T S -----

| TEST | SA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .26 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 600 | 0.2 | 22 | 94 | 0.2 | 68 | 2 | 60 | 4 | 2.80 | 410 | 4 | 0.4 | < | 10 | 17.31 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.03 |
| -60 HP TOT | | 0.1 | 100 | 175 | 0.6 | 22 | 5 | | | 8.30 | 3100 | 3 | 0.2 | | | 46.75 |
| -35+60 IP OX | | 0.1 | 2 | 49 | 0.1 | 6 | 1 | | | 1.10 | 350 | 3 | | | | |
| -35+60 IP TOT | | 0.1 | 7 | 152 | 0.1 | 22 | 1 | | | 4.75 | 730 | 7 | | | | 26.16 |
| -80C TOT | 150 | 0.1 | 14 | 260 | 1 | 22 | 1 | 1 | | 2.60 | 617 | 7 | | | | |

STREAM WIDTH= 30.1M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|------------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 1.2M |
| ----- | MODERATE(10-50%) | 2 | | X | X | X | X | X | X | X | X | X | X | X | X | X | SEDIMENT SORTING = VERY POOR |
| | LITTLE(<<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = NONE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 11.8KG
 BASIN AREA = 8.0KM**2

NTS-105G07

 * * *
 * SAMPLE * 81G0275 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 408600E -----
-NORTHNG 805400N
NTS- 105G07

DATE SAMPLED: 26JUN81
SAMPLERS : NP/

* * *
* SAMPLE * 81G0276 *
* * *

SAMPLE 81G0276 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .29 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 500 | 0.4 | 40 | 400 | 0.2 | 78 | 4 | 2 | 12 | 8.50 | 1640 | 14 | 0.8 | < | 10 | 15.99 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.89 |
| -60 HP TOT | | 0.1 | 8 | 160 | 0.3 | 30 | 4 | | | 6.45 | 2060 | 4 | 0.1 | | | 56.30 |
| -35+60 IP OX | | 0.1 | 5 | 125 | 0.3 | 5 | 1 | | | 1.30 | 320 | 4 | | | | |
| -35+60 IP TOT | | 0.1 | 11 | 425 | 0.1 | 32 | 1 | | | 5.35 | 770 | 7 | | | | 22.22 |
| -80C TOT | 60 | 0.1 | 12 | 347 | 0.4 | 23 | 2 | 1 | | 2.30 | 512 | 5 | | | | |

STREAM WIDTH= 2.7M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= STEEP
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= ORANGE BROWN

SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = POSSIBLE EXOTIC TILL

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | GOOD | NONE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.2KG
BASIN AREA = 8.0KM**2

NTS-105G07

* * *
* SAMPLE * 81G0276 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 26JUN81
----- -EASTING 413200E -----
-NORTHNG 810200N
NTS- 105G07

SAMPLERS : DC/

* * *
* SAMPLE * 81G0279 *
* * *

SAMPLE 81G0279 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .16 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 3600 | 0.2 | 36 | 114 | 0.2 | 160 | 6 | 105 | 20 | 3.40 | 525 | 10 | 0.8 | < | 10 | 7.23 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 5.56 |
| -60 HP TOT | | 0.3 | 45 | 300 | 1.7 | 110 | 6 | | | 9.00 | 4780 | 23 | 1 | | | 7.71 |
| -35+60 IP OX | | 0.1 | 4 | 36 | 0.4 | 6 | 1 | | | .85 | 315 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 14 | 242 | 0.4 | 43 | 1 | | | 5.30 | 770 | 20 | | | | 48.51 |
| -80C TOT | 140 | 0.2 | 19 | 294 | 1.2 | 37 | 3 | 1 | | 3.20 | 738 | 16 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.6M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = POSSIBLE EXOTIC TILL

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | | | X | X | X | | | | | | | | | | |
| | LITTLE(<10%) | 1 | | X | X | X | X | | | X | | | | | | | |
| | NONE | 0 | X | X | X | X | X | | | X | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.0KG
BASIN AREA = 5.0KM**2

NTS-105G07

* * *
* SAMPLE * 81G0279 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 26JUN81
-EASTING 416300E -NORTHNG 809500N NTS- 105G07

SAMPLERS : NP/

* * *
* SAMPLE * 81G0280 *
* * *

SAMPLE 81G0280 A S S A Y R E S U L T S

Table with columns: TEST, SA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include tests like -60 HM TOT, -35+60 IM TOT, etc.

STREAM WIDTH= 6.1M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
DEPTH= 0.1M PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY

MAX. BOULDER SIZE= 0.0M SEDIMENT SORTING = MODERATE DECAYED ORGANICS = NONE
GJ-SORTING PARAMETER = GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE WEIGHT= 11.4KG BASIN AREA = 29.0KM**2

* * *
* SAMPLE * 81G0280 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 26JUN81
----- -EASTING 417000E -----
-NORTHNG 811000N G
NTS- 105G07

DATE SAMPLED: 26JUN81
SAMPLERS : NM/OC

* * * * *
* SAMPLE * 81G0281 *
* * * * *

SAMPLE 81G0281 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .49 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 700 | 0.2 | 18 | 62 | 0.2 | 20 | 4 | 200 | 8 | 2.20 | 530 | 4 | 0.8 | | 10 | 12.86 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 7.53 |
| -60 HP TOT | | 0.1 | 12 | 96 | 0.3 | 16 | 2 | | | 3.80 | 2680 | 3 | 0.2 | | | 27.86 |
| -35+60 IP OX | | 0.1 | 5 | 46 | 0.2 | 6 | 2 | | | .85 | 625 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 12 | 140 | 0.1 | 20 | 1 | | | 4.20 | 1025 | 11 | | | | 49.92 |
| -80C TOT | 220 | 0.1 | 14 | 205 | 1 | 18 | 1 | 1 | | 1.90 | 978 | 9 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN
SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = MODERATE
LITTLE(<10%) 1 X X X X DECAYED ORGANICS = MODERATE
NONE 0 X X X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 11.8KG
BASIN AREA = 8.0KM**2

NTS-105G07

* * * * *
* SAMPLE * 81G0281 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 20JUN81
----- -EASTING 404400E -----
-NORTHNG 816200N
NTS- 105G07

SAMPLERS : NP/

* * *
* SAMPLE * 81G0282 *
* * *

SAMPLE 81G0282 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .74 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 1800 | 0.2 | 46 | 112 | 0.2 | 60 | 2 | 75 | 76 | 3.75 | 430 | 22 | 3.2 | | 3610 | 6.88 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 15.16 |
| -60 HP TOT | | 0.7 | 50 | 335 | 1 | 190 | 8 | | | 13.10 | 1320 | 130 | 4.6 | | | 18.33 |
| -35+60 IP OX | | 0.1 | 2 | 22 | 0.2 | 13 | 1 | | | .90 | 145 | 14 | | | | |
| -35+60 IP TOT | | 0.1 | 24 | 270 | 0.3 | 95 | 5 | | | 11.00 | 960 | 75 | | | | 48.67 |
| -80C TOT | 200 | 0.2 | 10 | 75 | 0.6 | 27 | 2 | 1 | | 2.40 | 549 | 32 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.9M | POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.5KG
BASIN AREA = 17.0KM**2

* * *
* SAMPLE * 81G0282 *
* * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 20JUN81
----- -EASTING 404400E -----
-NORTHNG 815700N
NTS- 105607

SAMPLERS : NP/

* * *
* SAMPLE * 81G0283 *
* * *

SAMPLE 81G0283 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .42 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 700 | 0.2 | 22 | 54 | 0.2 | 42 | 4 | 70 | 48 | 2.40 | 350 | 10 | 1.6 | < | 10 | 12.51 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.33 |
| -60 HP TOT | | 0.1 | 27 | 105 | 0.2 | 40 | 2 | | | 5.90 | 2190 | 27 | 0.6 | | | 24.40 |
| -35+60 IP OX | | 0.1 | 6 | 21 | 0.1 | 8 | 1 | | | .95 | 160 | 11 | | | | |
| -35+60 IP TOT | | 0.1 | 17 | 120 | 0.2 | 33 | 3 | | | 5.50 | 665 | 39 | | | | 20.00 |
| -80C TOT | 50 | 0.1 | 12 | 72 | 0.2 | 17 | 1 | 1 | | 1.90 | 277 | 14 | | | | |

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= VARIABLE SLIGHT MN HYDROXIDES/BLACK
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.9M | POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.6KG
BASIN AREA = 26.0KM**2

NTS-105607

* * *
* SAMPLE * 81G0283 *
* * *

EXG33

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 26JUN81
----- -EASTING 405300E -----
-NORTHNG 815300N
NTS- 105G07 G

DATE SAMPLED: 26JUN81
SAMPLERS : NP/

* * *
* SAMPLE * 81G0284 *
* * *

SAMPLE 81G0284 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .28 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 400 | 0.4 | 26 | 62 | 0.2 | 24 | 6 | 30 | 12 | 2.05 | 290 | 12 | 1.6 | < | 10 | 18.44 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.60 |
| -60 HP TOT | | 0.1 | 38 | 160 | 0.6 | 60 | 3 | | | 6.10 | 1800 | 36 | 0.4 | | | 25.30 |
| -35+60 IP OX | | 0.1 | 6 | 28 | 0.3 | 11 | 1 | | | .75 | 130 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 20 | 185 | 0.1 | 40 | 2 | | | 6.30 | 660 | 29 | | | | 20.84 |
| -80C TOT | 40 | 0.1 | 14 | 86 | 0.2 | 14 | 1 | 1 | | 1.70 | 253 | 13 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE EXOTIC TILL
CONTAMINATION = POSSIBLE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | MODERATE | NONE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 12.3KG
BASIN AREA = 5.0KM**2

NTS-105G07

* * *
* SAMPLE * 81G0284 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE G9
----- -EASTING 406200E
-NORTHNG 812300N
NTS- 105G07

PROJECT

G

DATE SAMPLED: 26JUN81
SAMPLERS : NP/

* * * * *
* SAMPLE * 81G0285 *
* * * * *

SAMPLE 81G0285 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .29 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 400 | 0.2 | 24 | 22 | 0.2 | 50 | 2 | 50 | 2 | 2.48 | 360 | 96 | 0.2 | < | 10 | 43.49 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.61 |
| -60 HP TOT | | 0.1 | 15 | 46 | 0.1 | 28 | 2 | | | 5.40 | 3570 | 14 | 0.1 | | | 24.35 |
| -35+60 IP OX | | 0.1 | 4 | 17 | 0.1 | 9 | 2 | | | .93 | 142 | 10 | | | | |
| -35+60 IP TOT | | 0.1 | 7 | 74 | 0.1 | 16 | 2 | | | 3.95 | 548 | 17 | | | | 17.27 |
| -80C TOT | 60 | 0.1 | 8 | 58 | 0.8 | 18 | 2 | 1 | | 2.50 | 312 | 20 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= STEEP
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X |

MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.1KG
BASIN AREA = 8.0KM**2

NTS-105G07

* * * * *
* SAMPLE * 81G0285 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 407500E -----
 -NORTHNG 816000N
 NTS- 105607 G

DATE SAMPLED: 26JUN81
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0287 *
 * * *

SAMPLE 81G0287 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .21 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .11 |
| -60 HN TOT | 400 | 0.2 | 24 | 68 | 0.2 | 16 | 2 | 25 | 4 | 2.80 | 420 | 18 | 0.8 | | 30 | 8.68 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 6.74 |
| -60 HP TOT | | 0.1 | 39 | 180 | 0.6 | 23 | 3 | | | 7.15 | 3150 | 12 | 0.2 | | | 10.35 |
| -35+60 IP OX | | 0.1 | 12 | 36 | 0.4 | 5 | 2 | | | 1.20 | 395 | 25 | | | | |
| -35+60 IP TOT | | 0.1 | 31 | 323 | 0.8 | 38 | 2 | | | 7.80 | 1050 | 57 | | | | 27.72 |
| -80C TOT | 80 | 0.1 | 16 | 118 | 0.6 | 11 | 2 | 1 | | 1.90 | 1062 | 30 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.6M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = VERY POOR
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = MODERATE
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 9.5KG
 BASIN AREA = 6.0KM**2

NTS-105607

 * * *
 * SAMPLE * 81G0287 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 26JUN81
----- -EASTING 410200E -----
-NORTHNG 817300N
NTS- 105G07

SAMPLERS : DC/

* * *
* SAMPLE * 81G0288 *
* * *

SAMPLE 81G0288 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .16 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 750 | 0.2 | 60 | 180 | 0.4 | 116 | 2 | 40 | 8 | 1.85 | 410 | 8 | 0.8 | | 20 | 3.95 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.77 |
| -60 HP TOT | | 0.2 | 38 | 250 | 1 | 54 | 3 | | | 8.00 | 1280 | 14 | 0.6 | | | 15.03 |
| -35+60 IP OX | | 0.1 | 16 | 141 | 0.8 | 19 | 1 | | | 1.50 | 860 | 9 | | | | |
| -35+60 IP TOT | | 0.1 | 68 | 590 | 1.2 | 70 | 6 | | | 12.00 | 1550 | 38 | | | | 18.15 |
| -80C TOT | 240 | 0.3 | 23 | 298 | 2 | 26 | 2 | 1 | | 2.70 | 1341 | 13 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0

 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = VERY POOR
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.5KG
BASIN AREA = 9.0KM**2

NTS-105G07

* * *
* SAMPLE * 81G0288 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 26JUN81
----- -EASTING 410700E -----
-NORTHNG 817100N
NTS- 105G07

SAMPLERS : DC/

* * * * *
* SAMPLE * 81G0289 *
* * * * *

SAMPLE 81G0289 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .13 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 850 | 0.2 | 176 | 300 | 3.2 | 48 | 8 | 280 | 100 | 3.20 | 350 | 38 | 0.8 | | 130 | 3.59 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.91 |
| -60 HP TOT | | 0.3 | 75 | 440 | 2 | 78 | 2 | | | 8.00 | 985 | 390 | 0.4 | | | 17.61 |
| -35+60 IP OX | | 0.1 | 25 | 159 | 1 | 17 | 1 | | | 1.10 | 330 | 11 | | | | |
| -35+60 IP TOT | | 0.1 | 74 | 692 | 1.9 | 70 | 3 | | | 11.00 | 945 | 59 | | | | 25.86 |
| -80C TOT | 110 | 0.1 | 32 | 204 | 1 | 21 | 2 | 1 | | 1.70 | 568 | 7 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.6M
----- MODERATE(10-50%) 2 X X X SEDIMENT SORTING = VERY POOR
LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = NONE
NONE 0 X X X X X
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.2KG
BASIN AREA = 5.0KM**2

NTS-105G07

* * * * *
* SAMPLE * 81G0289 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 16JUN81
----- -EASTING 415400E -----
-NORTHNG 816800N
NTS- 105G07

SAMPLERS : CH/

* * *
* SAMPLE * 81G0290 *
* * *

SAMPLE 81G0290 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.12 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 900 | 0.4 | 40 | 300 | 2 | 74 | 6 | 310 | 8 | 4.30 | 730 | 6 | 0.8 | | 7630 | 7.11 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.33 |
| -60 HP TOT | | 0.5 | 35 | 460 | 1.5 | 72 | 3 | | | 8.20 | 1670 | 19 | 1 | | | 30.85 |
| -35+60 IP OX | | 0.1 | 18 | 400 | 1.6 | 34 | 1 | | | 2.10 | 1025 | 12 | | | | |
| -35+60 IP TOT | | 11 | 69 | 1200 | 2.6 | 6165 | 8 | | | 15.00 | 1800 | 55 | | | | 22.99 |
| -80C TOT | 340 | 0.8 | 48 | 1934 | 12.5 | 55 | 5 | 1 | | 4.90 | 3313 | 42 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN
 SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= VARIABLE MODERATE FE HYDROXIDES/RUST
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 MODERATE(10-50%) 2 X X SEDIMENT SORTING = GOOD
 LITTLE(<10%) 1 X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 7.7KG
BASIN AREA = 9.0KM**2

NTS-105G07

* * *
* SAMPLE * 81G0290 *
* * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 414700E -----
-NORTHNG 821800N G
NTS- 105G10

DATE SAMPLED: 16JUN81
SAMPLERS : NP/DC

* * *
* SAMPLE * 81G0291 *
* * *

SAMPLE 81G0291 ----- ASSAY RESULTS -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.46 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 1600 | 0.2 | 26 | 116 | 0.4 | 36 | 4 | 200 | 8 | 3.40 | 520 | 4 | 0.8 | | 60 | 7.37 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.50 |
| -60 HP TOT | | 0.3 | 23 | 280 | 0.9 | 70 | 2 | | | 7.40 | 1870 | 45 | 2.6 | | | 19.89 |
| -35+60 IP OX | | 0.1 | 10 | 129 | 0.6 | 21 | 1 | | | 1.75 | 780 | 25 | | | | |
| -35+60 IP TOT | | 0.1 | 26 | 555 | 1.1 | 292 | 7 | | | 10.00 | 1450 | 92 | | | | 21.23 |
| -80C TOT | 90 | 0.3 | 13 | 300 | 2.4 | 28 | 4 | 1 | | 2.70 | 1183 | 28 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X |

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.2KG
BASIN AREA = 15.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0291 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 16JUN81
----- -EASTING 414800E -----
-NORTHNG 822000N PROJECT G
NTS- 105G10

DATE SAMPLED: 16JUN81
SAMPLERS : NM/

* * *
* SAMPLE * 81G0292 *
* * *

SAMPLE 81G0292 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.71 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 14500 | 7.6 | 20 | 80 | 0.2 | 60 | 4 | 640 | 180 | 2.80 | 420 | 4 | 0.8 | 10100 | | 7.54 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.62 |
| -60 HP TOT | | 0.1 | 10 | 160 | 0.1 | 20 | 2 | | | 5.65 | 1810 | 12 | 1.4 | | | 16.14 |
| -35+60 IP OX | | 0.1 | 3 | 25 | 0.1 | 4 | 1 | | | 1.00 | 155 | 11 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 116 | 0.1 | 16 | 1 | | | 4.60 | 645 | 19 | | | | 19.24 |
| -80C TOT | 160 | 0.2 | 11 | 103 | 0.4 | 18 | 2 | 1 | | 1.90 | 341 | 22 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|------------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.6M |
| ----- | MODERATE(10-50%) | 2 | X | X | | | | | | | | | | | | | SEDIMENT SORTING = VERY POOR |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.3KG
BASIN AREA = 13.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0292 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 16JUN81
----- -EASTING 420200E -----
-NORTHNG 817300N
NTS- 105G08

SAMPLERS : NM/

* * * * *
* SAMPLE * 81G0293 *
* * * * *

SAMPLE 81G0293 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.20 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 500 | 0.4 | 16 | 60 | 0.2 | 23 | 4 | 140 | 12 | 2.65 | 860 | 4 | 0.8 | < 10 | | 4.38 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .18 |
| -60 HP TOT | | 0.1 | 16 | 110 | 0.2 | 24 | 2 | | | 6.80 | 4280 | 3 | 0.2 | | | 7.10 |
| -35+60 IP OX | | 0.2 | 5 | 45 | 0.2 | 5 | 2 | | | 2.00 | 1025 | 15 | | | | |
| -35+60 IP TOT | | 0.2 | 5 | 145 | 0.2 | 10 | 2 | | | 5.50 | 1500 | 18 | | | | .80 |
| -80C TOT | 370 | 0.3 | 10 | 124 | 0.6 | 11 | 2 | 1 | | 2.50 | 2509 | 18 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 1.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.3M |
| ----- | MODERATE(10-50%) | 2 | X | | | | | | | | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = HIGH |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.7KG
BASIN AREA = 19.0KM**2

NTS-105G08

* * * * *
* SAMPLE * 81G0293 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT
----- -EASTING 420200E -----
-NORTHNG 820500N G
NTS- 105G09

DATE SAMPLED: 16JUN81
SAMPLERS : NP/DC

* * *
* SAMPLE * 81G0294 *
* * *

SAMPLE 81G0294 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.95 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .19 |
| -60 HN TOT | 1500 | 0.4 | 20 | 48 | 0.2 | 24 | 4 | 600 | 52 | 3.05 | 580 | 2 | 0.8 | | 5940 | 7.55 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 6.56 |
| -60 HP TOT | | 0.1 | 7 | 175 | 0.1 | 10 | 1 | | | 4.00 | 2800 | 3 | 0.4 | | | 19.38 |
| -35+60 IP OX | | 0.1 | 2 | 19 | 0.1 | 1 | 1 | | | .75 | 245 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 2 | 89 | 0.1 | 6 | 1 | | | 3.90 | 725 | 9 | | | | 28.93 |
| -80C TOT | 220 | 0.1 | 8 | 82 | 1 | 9 | 1 | 7 | | 1.40 | 721 | 8 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.7M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | X | X | X | X | X | X | X | X | X | X | X | X | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | | | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.3KG
BASIN AREA = 34.0KM**2

NTS-105G09

* * *
* SAMPLE * 81G0294 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 16JUN81
-EASTING 420000E -NORTHNG 822500N NTS- 105G09

SAMPLERS : CH/

* * *
* SAMPLE * 81G0296 *
* * *

SAMPLE 81G0296 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, TOT.

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
DEPTH= 0.0M
PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR GREY SEDIMENT COLOR= BLACK/DARKBROWN
SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER
PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = MODERATE
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 6.8KG
BASIN AREA = 5.0KM**2

* * *
* SAMPLE * 81G0296 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 420000E -----
-NORTHNG 823500N
NTS- 105G10

DATE SAMPLED: 16JUN81
SAMPLERS : CH/

* * * * *
* SAMPLE * 81G0297 *
* * * * *

SAMPLE 81G0297 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.17 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 2700 | 0.2 | 22 | 52 | 0.2 | 50 | 4 | 150 | 220 | 3.15 | 445 | 2 | 2.4 | < | 10 | 6.56 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .76 |
| -60 HP TOT | | 0.1 | 15 | 105 | 0.1 | 18 | 2 | | | 4.55 | 3100 | 7 | 1.4 | | | |
| -35+60 IP OX | | 0.1 | 1 | 23 | 0.1 | 4 | 1 | | | 1.70 | 125 | 20 | | | | |
| -35+60 IP TOT | | 0.1 | 3 | 120 | 0.1 | 18 | 1 | | | 6.20 | 680 | 27 | | | | 10.41 |
| -80C TOT | 60 | 0.1 | 7 | 77 | 0.2 | 12 | 1 | 1 | | 2.00 | 311 | 23 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 DEPTH= 1.2M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR BROWN SEDIMENT COLOR= WHITE/LIGHTBROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = POSSIBLE

SEDIMENT LOTS(>50%) 3 X MAX. BOULDER SIZE= 0.0M
 MODERATE(10-50%) 2 X SEDIMENT SORTING = POOR
 LITTLE(<10%) 1 X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.5KG
BASIN AREA = 52.0KM**2

NTS-105G10

* * * * *
* SAMPLE * 81G0297 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 418000E -----
 -NORTHNG 827000N G
 NTS- 105G10

DATE SAMPLED: 16JUN81
 SAMPLERS : NP/DC

 * * *
 * SAMPLE * 81G0298 *
 * * *

SAMPLE 81G0298 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60. HM TOT | | | | | | | | | | | | | | | | 1.76 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | 16500 | 0.6 | 22 | 440 | 3.2 | 250 | 2 | 160 | 104 | 6.50 | 780 | 400 | 5.6 | | 240 | 6.56 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.12 |
| -60 HP TOT | | 0.1 | 36 | 290 | 0.3 | 80 | 5 | | | 9.60 | 2630 | 73 | 6.2 | | | 9.62 |
| -35+60 IP OX | | 0.1 | 1 | 36 | 0.1 | 6 | 1 | | | 1.50 | 545 | 24 | | | | |
| -35+60 IP TOT | | 0.1 | 6 | 245 | 0.3 | 32 | 1 | | | 7.45 | 1250 | 39 | | | | 9.55 |
| -80C TOT | 150 | 0.4 | 11 | 173 | 1.2 | 21 | 4 | 1 | | 3.90 | 2424 | 82 | | | | |

STREAM WIDTH= 4.5M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | | | | | | | | | | | 0.3M | VERY POOR | NONE | | |
| | | 2 | | | X | X | X | | | | | | | | | |
| | | 1 | | | X | X | X | X | | | | | | | | |
| | | 0 | | | X | X | X | X | | | | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 7.3KG
 BASIN AREA = 60.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0298 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 417100E -----
-NORTHNG 827200N G
NTS- 105G10

DATE SAMPLED: 17JUN81
SAMPLERS : DC/

* * *
* SAMPLE * 81G0299 *
* * *

SAMPLE 81G0299 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.03 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .14 |
| -60 HN TOT | 6700 | 0.6 | 26 | 66 | 0.2 | 26 | 4 | 160 | 156 | 2.95 | 490 | 6 | 2.4 | < | 10 | 3.43 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.54 |
| -60 HP TOT | | 0.1 | 29 | 150 | 0.3 | 37 | 3 | | | 5.70 | 1780 | 20 | 4.2 | | | 4.90 |
| -35+60 IP OX | | 0.1 | 3 | 29 | 0.1 | 7 | 1 | | | 1.20 | 330 | 11 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 168 | 0.2 | 27 | 1 | | | 7.00 | 950 | 24 | | | | 9.67 |
| -80C TOT | 110 | 0.2 | 8 | 83 | 0.4 | 21 | 2 | 1 | | 2.00 | 843 | 24 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X X X X X MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X X X X X SEDIMENT SORTING = POOR
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 6.8KG
BASIN AREA = 8.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0299 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 17JUN81
----- -EASTING 418000E -----
-NORTHNG 828000N
NTS- 105G10

SAMPLERS : NM/NP

* * *
* SAMPLE * 81G0300 *
* * *

SAMPLE 81G0300 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.29 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | 10000 | 0.4 | 24 | 130 | 0.4 | 240 | 2 | 80 | 100 | 4.40 | 400 | 154 | 4 | 1270 | | 3.62 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 10.58 |
| -60 HP TOT | | 0.2 | 36 | 350 | 0.4 | 86 | 8 | | | 11.00 | 1600 | 107 | 16.6 | | | 5.00 |
| -35+60 IP OX | | 0.1 | 1 | 43 | 0.1 | 13 | 1 | | | 1.75 | 330 | 25 | | | | |
| -35+60 IP TOT | | 0.1 | 9 | 210 | 0.2 | 22 | 1 | | | 7.70 | 970 | 43 | | | | 18.85 |
| -80C TOT | 280 | 0.3 | 11 | 112 | 0.4 | 28 | 2 | 1 | | 2.00 | 322 | 25 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= LOW FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR YELLOW SEDIMENT COLOR= BLACK/DAR
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|--|
| ----- | MODERATE(10-50%) | 2 | X | X | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = VERY POOR
 DECAYED ORGANICS = MODERATE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 6.4KG
BASIN AREA = 14.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0300 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT
----- -EASTING 412500E -----
-NORTHNG 830700N G
NTS- 105G10

DATE SAMPLED: 17JUN81
SAMPLERS : CH/

* * *
* SAMPLE * 81G0301 *
* * *

SAMPLE 81G0301 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .54 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 21000 | 0.4 | 16 | 88 | 0.2 | 32 | 2 | 80 | 84 | 2.70 | 550 | 6 | 4 | < 10 | | 2.87 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.18 |
| -60 HP TOT | | 0.1 | 21 | 180 | 0.2 | 33 | 5 | | | 5.85 | 1850 | 22 | 4.6 | | | 3.72 |
| -35+60 IP OX | | 0.1 | 1 | 41 | 0.2 | 5 | 1 | | | 1.95 | 505 | 25 | | | | |
| -35+60 IP TOT | | 0.1 | 14 | 228 | 0.1 | 23 | 1 | | | 8.50 | 1200 | 45 | | | | 2.98 |
| -80C TOT | 110 | 0.1 | 7 | 58 | 0.4 | 8 | 2 | 1 | | 1.40 | 426 | 13 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
 ----- BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 MAX. BOULDER SIZE= 0.0M
 SEDIMENT SORTING = POOR
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.5KG
BASIN AREA = 21.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0301 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 409800E -----
 -NORTHNG 830800N
 NTS- 105G10 G

DATE SAMPLED: 18JUN81
 SAMPLERS : CH/DC

 * * *
 * SAMPLE * 81G0302 *
 * * *

SAMPLE 81G0302 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.06 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | >50000 | 0.4 | 4 | 66 | 0.2 | 40 | 4 | 85 | 40 | 3.30 | 510 | 14 | 3.2 | | 10 | 5.36 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.10 |
| -60 HP TOT | | 0.2 | 22 | 210 | 0.2 | 45 | 3 | | | 9.00 | 3170 | 27 | 4.2 | | | 5.32 |
| -35+60 IP OX | | 0.1 | 4 | 28 | 0.1 | 7 | 1 | | | 1.75 | 725 | 22 | | | | |
| -35+60 IP TOT | | 0.1 | 11 | 162 | 0.2 | 25 | 1 | | | 7.10 | 1350 | 32 | | | | 4.01 |
| -80C TOT | 600 | 0.4 | 12 | 101 | 0.2 | 25 | 3 | 1 | | 2.60 | 1482 | 34 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.6M
 ----- MODERATE(10-50%) 2 X X
 LITTLE(<10%) 1 X X X X X X
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= NOT RECORDED
 ----- WEIGHT= 9.1KG
 BASIN AREA = 36.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0302 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 18JUN81
 ----- -EASTING 409000E -----
 -NORTHNG 834700N
 NTS- 105G10

PROJECT DATE SAMPLED: 18JUN81

 G SAMPLERS : CH/DC

 * * *
 * SAMPLE * 81G0303 *
 * * *

SAMPLE 81G0303 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .88 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 21000 | 14 | 20 | 76 | 0.4 | 80 | 2 | 420 | NSS | 3.20 | 740 | 20 | NSS | | 27300 | 2.09 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.15 |
| -60 HP TOT | | 0.1 | 22 | 175 | 0.1 | 29 | 3 | | | 8.10 | 3120 | 29 | 3.2 | | | 3.54 |
| -35+60 IP OX | | 0.1 | 5 | 23 | 0.1 | 4 | 1 | | | 1.40 | 865 | 19 | | | | |
| -35+60 IP TOT | | 0.1 | 13 | 164 | 0.1 | 25 | 1 | | | 6.25 | 1400 | 35 | | | | 7.56 |
| -80C TOT | 960 | 0.4 | 11 | 83 | 0.2 | 15 | 4 | 1 | | 3.40 | 4014 | 84 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.6M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = GOOD
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = LOW
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= NO SAMPLE-STANDARD
 ----- WEIGHT= 6.8KG
 BASIN AREA = 36.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0303 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 17JUN81
-EASTING 409400E
-NORTHNG 836000N
NTS- 105G10

SAMPLERS : DC/

* * *
* SAMPLE * 81G0304 *
* * *

SAMPLE 81G0304 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, and TOT.

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.0M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = NONE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 7.7KG
BASIN AREA = 8.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0304 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 17JUN81
-EASTING 407400E -NORTHNG 837000N NTS- 105G10

SAMPLERS : DC/

* * *
* SAMPLE * 81G0305 *
* * *

Table with columns: SAMPLE, TEST, BA, AG, PB, ZN, CD, CU, MO, W, SN, FE, MN, AS, SB, HG, AU, WT. Rows include tests like -60 HM TOT, -35+60 IM TOT, etc.

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= MODERATE
DEPTH= 0.3M PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 X MODERATE(10-50%) 2 X COBBLES X GRANULES X SAND X SILT X CLAY
MAX. BOULDER SIZE= 0.3M SEDIMENT SORTING = POOR DECAYED ORGANICS = NONE
GJ-SORTING PARAMETER = GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE WEIGHT= 4.5KG BASIN AREA = 12.0KM**2

* * *
* SAMPLE * 81G0305 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE G9 PROJECT
----- -EASTING 403300E
-NORTHNG 840600N
NTS- 105G10

DATE SAMPLED: 17JUN81
SAMPLERS : CH/

* * *
* SAMPLE * 81G0306 *
* * *

SAMPLE
81G0306

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | < .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | NSS | 0.2 | 34 | 64 | 0.2 | 148 | 2 | NSS | NSS | 1.68 | 450 | 46 | NSS | | 2480 | 1.61 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.71 |
| -60 HP TOT | | 0.2 | 42 | 280 | 0.2 | 68 | 6 | | | 9.80 | 3460 | 44 | 8 | | | 1.47 |
| -35+60 IP OX | | 0.1 | 8 | 34 | 0.2 | 9 | 1 | | | 1.38 | 505 | 14 | | | | |
| -35+60 IP TOT | | 0.1 | 16 | 220 | 0.1 | 35 | 1 | | | 8.10 | 1350 | 30 | | | | 4.66 |
| -80C TOT | 250 | 0.2 | 13 | 82 | 0.4 | 17 | 1 | 1 | | 1.60 | 435 | 11 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= VARIABLE MODERATE ORGANIC SLIME
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | X | | | X | | X | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | | X | X | X | | X | | X | X | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | | X | | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 5.5KG
BASIN AREA = 11.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0306 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 17JUN81
 ----- -EASTING 397200E ----- SAMPLERS : DC/
 -NORTHNG 839800N G
 NTS- 105G10

 * * *
 * SAMPLE * 81G0307 *
 * * *

SAMPLE 81G0307 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.35 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | 21000 | 0.8 | 16 | 54 | 0.2 | 94 | 2 | 90 | 208 | 2.70 | 410 | 12 | 2.4 | 20800 | | 3.18 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.03 |
| -60 HP TOT | | 0.1 | 12 | 170 | 0.1 | 37 | 4 | | | 8.10 | 2550 | 32 | 3.6 | | | 5.28 |
| -35+60 IP OX | | 0.1 | 4 | 25 | 0.1 | 5 | 1 | | | 1.30 | 555 | 16 | | | | |
| -35+60 IP TOT | | 0.1 | 12 | 145 | 0.1 | 23 | 1 | | | 6.95 | 1150 | 30 | | | | 9.08 |
| -80C TOT | 660 | 0.7 | 13 | 87 | 0.4 | 19 | 5 | 1 | | 3.00 | 3342 | 36 | | | | |

STREAM WIDTH= 0.3M WATER LEVEL= LOW FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= SLIGHT ORGANIC SLIME
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|--|
| ----- | MODERATE(10-50%) | 2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
 SEDIMENT SORTING = VERY POOR
 DECAYED ORGANICS = MODERATE
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 6.8KG
 BASIN AREA = 7.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0307 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 17JUN81
----- -EASTING 396500E -----
-NORTHNG 839200N
NTS- 105G10

SAMPLERS : NM/NP

* * *
* SAMPLE * 81G0308 *
* * *

SAMPLE 81G0308 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|------|
| -60 HM TOT | | | | | | | | | | | | | | | | .48 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 6400 | 0.2 | 40 | 52 | 0.6 | 34 | 2 | 50 | 28 | 3.10 | 400 | 4 | 0.8 | | | 5.11 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .19 |
| -60 HP TOT | | 0.1 | 23 | 140 | 0.1 | 28 | 3 | | | 6.55 | 1920 | 14 | 2.4 | | | 5.24 |
| -35+60 IP OX | | 0.2 | 5 | 55 | 0.4 | 8 | 2 | | | 2.50 | 390 | 15 | | | | |
| -35+60 IP TOT | | 0.2 | 8 | 185 | 0.2 | 23 | 2 | | | 7.55 | 1000 | 23 | | | | .79 |
| -80C TOT | 440 | 0.2 | 9 | 111 | 0.8 | 19 | 1 | 1 | | 1.70 | 470 | 8 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 X DECAYED ORGANICS = HIGH
 NONE 0 X BOULDERS X COBBLES X PEBBLES X GRANULES X SAND X SILT X CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 2.7KG
BASIN AREA = 4.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0308 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 397500E
-NORTHNG 838400N
NTS- 105G10

PROJECT

G

DATE SAMPLED: 17JUN81
SAMPLERS : CH/

* * *
* SAMPLE * 81G0309 *
* * *

SAMPLE 81G0309 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .94 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | NSS | 1 | 20 | 154 | 1.2 | 180 | 2 | NSS | NSS | 2.20 | 320 | 18 | NSS | | 500 | 1.75 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .65 |
| -60 HP TOT | | 0.1 | 16 | 200 | 0.1 | 34 | 5 | | | 7.20 | 2600 | 22 | 3.2 | | | 2.71 |
| -35+60 IP OX | | 0.1 | 3 | 24 | 0.1 | 4 | 1 | | | 1.45 | 340 | 14 | | | | |
| -35+60 IP TOT | | 0.1 | 10 | 200 | 0.3 | 24 | 1 | | | 7.25 | 1100 | 27 | | | | 3.01 |
| -80C TOT | 890 | 0.3 | 8 | 110 | 0.8 | 26 | 2 | 1 | | 2.10 | 1743 | 14 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | GOOD | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 5.0KG
BASIN AREA = 11.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0309 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 17JUN81
----- -EASTING 399600E -----
-NORTHNG 835000N
NTS- 105G10

SAMPLERS : DC/

* * *
* SAMPLE * 81G0310 *
* * *

SAMPLE 81G0310 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .47 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 19500 | 1 | 2 | 110 | 0.4 | 28 | 2 | 70 | 132 | 1.90 | 230 | 22 | 2.4 | < | 10 | 3.01 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.17 |
| -60 HP TOT | | 0.1 | 19 | 200 | 0.5 | 36 | 4 | | | 6.25 | 2180 | 19 | 3.8 | | | 4.47 |
| -35+60 IP OX | | 0.1 | 3 | 80 | 0.2 | 9 | 1 | | | 1.50 | 295 | 12 | | | | |
| -35+60 IP TOT | | 0.1 | 9 | 270 | 0.3 | 28 | 1 | | | 7.00 | 1050 | 20 | | | | 4.54 |
| -80C TOT | 610 | 0.3 | 11 | 160 | 1 | 27 | 2 | 1 | | 1.70 | 516 | 12 | | | | |

STREAM WIDTH= 0.3M WATER LEVEL= LOW FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE EXOTIC TILL
CONTAMINATION = UNCERTAIN

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | VERY POOR | NONE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.3KG
BASIN AREA = 3.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0310 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 402000E -----
 -NORTHNG 831000N
 NTS- 105G10

DATE SAMPLED: 17JUN81
 SAMPLERS : NM/NP

 * * *
 * SAMPLE * 81G0311 *
 * * *

SAMPLE 81G0311 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.16 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 7000 | 0.4 | 16 | 68 | 0.2 | 36 | 4 | 80 | 64 | 2.45 | 370 | 12 | 0.8 | | 2900 | 5.51 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.09 |
| -60 HP TOT | | 0.1 | 21 | 115 | 0.1 | 23 | 3 | | | 9.35 | 4000 | 6 | 1.2 | | | 9.23 |
| -35+60 IP OX | | 0.1 | 3 | 30 | 0.1 | 4 | 1 | | | 1.15 | 475 | 9 | | | | |
| -35+60 IP TOT | | 0.1 | 11 | 130 | 0.1 | 12 | 1 | | | 6.10 | 1100 | 11 | | | | 5.89 |
| -80C TOT | 20 | 0.1 | 8 | 80 | 0.6 | 9 | 2 | 1 | | 2.10 | 997 | 10 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY
 SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.6M
 ----- MODERATE(10-50%) 2 SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = MODERATE
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 7.7KG
 BASIN AREA = 8.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0311 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 404800E -----
-NORTHNG 829300N G
NTS- 105G10

DATE SAMPLED: 17JUN81
SAMPLERS : NM/NP

* * *
* SAMPLE * 81G0312 *
* * *

SAMPLE 81G0312 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .42 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .05 |
| -60 HN TOT | 6400 | 0.2 | 6 | 48 | 0.8 | 24 | 2 | 90 | 48 | 1.82 | 470 | 8 | 0.4 | < | 10 | 3.14 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.18 |
| -60 HP TOT | | 0.1 | 20 | 130 | 0.2 | 33 | 4 | | | 9.20 | 3400 | 12 | 1.8 | | | 7.68 |
| -35+60 IP OX | | 0.1 | 3 | 38 | 0.1 | 9 | 1 | | | 1.07 | 510 | 20 | | | | |
| -35+60 IP TOT | | 0.1 | 7 | 105 | 0.1 | 20 | 1 | | | 4.15 | 990 | 25 | | | | 15.28 |
| -80C TOT | 160 | 0.1 | 8 | 70 | 0.4 | 10 | 1 | 1 | | 1.60 | 649 | 22 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING= | DECAYED ORGANICS= | GJ-SORTING PARAMETER= | GJ-COARSENESS PARAMETER= |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|-------------------|-------------------|-----------------------|--------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | MODERATE | LOW | = | = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.7KG
BASIN AREA = 48.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0312 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 17JUN81
----- -EASTING 406500E -----
-NORTHNG 826900N
NTS- 105G10

SAMPLERS : DC/

* * *
* SAMPLE * 81G0313 *
* * *

SAMPLE 81G0313 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 20.51 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .08 |
| -60 HN TOT | 10000 | 0.2 | 10 | 54 | 0.2 | 32 | 2 | 300 | 64 | 2.00 | 510 | 4 | 0.8 | | 4850 | 9.19 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.95 |
| -60 HP TOT | | 0.5 | 55 | 1850 | 0.5 | 50 | 10 | | | 13.00 | 4000 | 25 | | | | .12 |
| -35+60 IP OX | | 0.1 | 3 | 36 | 0.1 | 7 | 1 | | | 1.02 | 325 | 20 | | | | |
| -35+60 IP TOT | | 0.1 | 9 | 100 | 0.1 | 19 | 1 | | | 3.80 | 718 | 29 | | | | 11.34 |
| -80C TOT | 490 | 0.1 | 8 | 66 | 0.2 | 10 | 2 | 1 | | 1.90 | 1481 | 37 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN

SAMPLE SITE= BAFFLED BOTTOM STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|--|--|
| ----- | MODERATE(10-50%) | 2 | X | X | | X | X | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | | | | | | | | | | |
| | NONE | 0 | X | X | X | X | X | X | | | | | | | | | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.6M
SEDIMENT SORTING = VERY POOR
DECAYED ORGANICS = NONE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.2KG
BASIN AREA = 39.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0313 *
* * *

EX033

HEAVY MINERALS

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 410500E -----
 -NORTHNG 825000N
 NTS- 105G10 G

DATE SAMPLED: 16JUN81
 SAMPLERS : NP/DC

 * * *
 * SAMPLE * 81G0314 *
 * * *

SAMPLE 81G0314 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.27 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .09 |
| -60 HN TOT | 4400 | 3.2 | 14 | 56 | 0.2 | 38 | 2 | 250 | 20 | 2.70 | 576 | 10 | 0.4 | < 10 | | 9.53 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.68 |
| -60 HP TOT | | 0.1 | 19 | 145 | 0.2 | 34 | 3 | | | 9.10 | 4020 | 27 | 1.4 | | | 19.73 |
| -35+60 IP OX | | 0.1 | 3 | 46 | 0.3 | 9 | 1 | | | 1.33 | 440 | 53 | | | | |
| -35+60 IP TOT | | 0.1 | 7 | 123 | 0.1 | 26 | 1 | | | 5.10 | 745 | 71 | | | | 20.07 |
| -80C TOT | 470 | 0.3 | 8 | 83 | 0.2 | 15 | 3 | 1 | | 3.80 | 1879 | 172 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
 ----- DEPTH= 0.0M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = PROBABLE EXOTIC TILL

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | | | | | | | | | | | 0.6M | VERY POOR | LOW | | |
| | | 2 | | | X | | X | | X | | X | | | | | |
| | | 1 | | | X | X | X | | X | X | X | | | | | |
| | | 0 | | | X | X | X | | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 8.6KG
 BASIN AREA = 10.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0314 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 4037COE -----
 -NORTHNG 824300N
 NTS- 105G10

DATE SAMPLED: 17JUN81
 SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0315 *
 * * *

SAMPLE 81G0315 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.61 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .20 |
| -60 HN TOT | 3700 | 0.4 | 28 | 46 | 0.2 | 40 | 4 | 200 | 52 | 3.25 | 380 | 10 | 0.8 | 66400 | | 4.69 |
| -60 HP TOT | | 0.2 | 9 | 240 | 0.1 | 20 | 4 | | | 12.30 | 6000 | 6 | 1.2 | | | 9.76 |
| -35+60 IP OX | | 0.1 | 4 | 16 | 0.1 | 2 | 1 | | | 1.00 | 240 | 15 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 103 | 0.1 | 14 | 1 | | | 4.85 | 785 | 22 | | | | 18.65 |
| -80C TOT | 480 | 0.2 | 7 | 52 | 0.2 | 12 | 2 | 1 | | 2.40 | 1077 | 28 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | | | | | | | | | | | | | SEDIMENT SORTING = GOOD |
| | LITTLE(<10%) | 1 | | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 6.8KG
 BASIN AREA = 7.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0315 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT DATE SAMPLED: 19JUN81
 ----- -EASTING 401700E -----
 -NORTHNG 82230N
 NTS- 105G10 PROJECT G

 * * *
 * SAMPLE * 81G0316 *
 * * *

SAMPLE 81G0316 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .81 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | 600 | 0.4 | 24 | 46 | 0.2 | 28 | 2 | 55 | 24 | 2.25 | 520 | 8 | 0.4 | < | 10 | 19.33 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.69 |
| -60 HP TOT | | 0.1 | 10 | 82 | 0.1 | 21 | 3 | | | 8.25 | 4250 | 10 | 0.4 | | | 26.85 |
| -35+60 IP OX | | 0.1 | 2 | 18 | 0.1 | 3 | 1 | | | .90 | 930 | 29 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 84 | 0.1 | 9 | 1 | | | 4.45 | 1150 | 35 | | | | 11.43 |
| -80C TOT | 190 | 0.1 | 7 | 45 | 0.4 | 6 | 1 | 1 | | 1.20 | 1770 | 50 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= POINT BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 COBBLES X PEBBLES X GRANULES X SAND X SILT X CLAY
 NONE 0 BOULDERS X COBBLES X PEBBLES X GRANULES X SAND X SILT X CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 9.5KG
 BASIN AREA = 13.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0316 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 402500E -----
 -NORTHNG 820700N
 NTS- 105G10 G

DATE SAMPLED: 19JUN81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0317 *
 * * *

SAMPLE 81G0317 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .40 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .04 |
| -60 HN TOT | 3200 | 0.2 | 24 | 48 | 0.2 | 30 | 2 | 80 | 12 | 2.80 | 305 | 14 | 0.4 | < | 10 | 8.22 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 5.81 |
| -60 HP TOT | | 0.1 | 13 | 110 | 0.1 | 22 | 4 | | | 13.60 | 5700 | 7 | 0.6 | | | 15.01 |
| -35+60 IP OX | | 0.1 | 3 | 25 | 0.1 | 4 | 1 | | | 1.10 | 180 | 15 | | | | |
| -35+60 IP TOT | | 0.1 | 9 | 119 | 0.2 | 14 | 1 | | | 5.10 | 705 | 23 | | | | 25.79 |
| -80C TOT | 240 | 0.2 | 9 | 73 | 0.6 | 19 | 2 | 1 | | 2.00 | 594 | 21 | | | | |

STREAM WIDTH= 0.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = UNCERTAIN EXOTIC TILL

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | VERY POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 5.5KG
 BASIN AREA = 7.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0317 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 402400E -----
-NORTHNG 826200N
NTS- 105G10

DATE SAMPLED: 26JUN81
SAMPLERS : NM/

* * *
* SAMPLE * 81G0318 *
* * *

SAMPLE 81G0318 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 3.00 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 3400 | 0.2 | 16 | 40 | 0.2 | 30 | 2 | 90 | 2 | 2.06 | 416 | 8 | 0.4 | < | 10 | 23.00 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.61 |
| -60 HP TOT | | 0.2 | 16 | 140 | 0.2 | 40 | 2 | | | 8.00 | 3000 | 30 | 1.6 | | | 46.27 |
| -35+60 IP OX | | 0.1 | 5 | 35 | 0.1 | 16 | 1 | | | 1.38 | 548 | 23 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 97 | 0.2 | 32 | 1 | | | 4.60 | 1100 | 25 | | | | 19.00 |
| -80C TOT | 330 | 0.2 | 8 | 45 | 0.2 | 14 | 1 | 1 | | 1.40 | 1175 | 23 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | | | X | | X | | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | | | | X | | X | | X | | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 10.9KG
BASIN AREA = 4.0KM**2

NTS-105G10

* * *
* SAMPLE * 81G0318 *
* * *

EXG33

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
 ----- -EASTING 396800E -----
 -NORTHNG 827900N
 NTS- 105G10 G

SAMPLERS : NP/NM

 * * *
 * SAMPLE * 81G0319 *
 * * *

SAMPLE 81G0319 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 6.96 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .32 |
| -60 HN TOT | 500 | 0.2 | 2 | 16 | 0.2 | 12 | 2 | 18 | 2 | .58 | 90 | 4 | 0.2 | < | 10 | 73.75 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 10.87 |
| -60 HP TOT | | 0.1 | 5 | 95 | 0.1 | 22 | 3 | | | 4.35 | 1400 | 6 | 1 | | | 40.48 |
| -35+60 IP OX | | 0.1 | 1 | 24 | 0.1 | 9 | 2 | | | .86 | 115 | 9 | | | | |
| -35+60 IP TOT | | 0.1 | 3 | 50 | 0.1 | 14 | 1 | | | 2.80 | 495 | 14 | | | | 18.80 |
| -80C TOT | 220 | 0.1 | 4 | 46 | 0.2 | 10 | 1 | 1 | | 1.40 | 276 | 10 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= SLIGHT CONTAMINATION = NONE FE HYDROXIDES/RUST

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | MODERATE | LOW | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 9.5KG
 BASIN AREA = 8.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0319 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
 ----- -EASTING 393800E ----- SAMPLERS : CH/
 -NORTHNG 830200N
 NTS- 105G10

 * * *
 * SAMPLE * 81G0320 *
 * * *

SAMPLE 81G0320 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 4.27 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .17 |
| -60 HN TOT | 6700 | 0.2 | 4 | 40 | 0.2 | 66 | 2 | 100 | 16 | 1.32 | 232 | 6 | 0.4 | < | 10 | 12.97 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.46 |
| -60 HP TOT | | 0.1 | 10 | 110 | 0.1 | 22 | 3 | | | 7.25 | 2900 | 9 | 1.2 | | | 18.87 |
| -35+60 IP OX | | 0.1 | 3 | 30 | 0.1 | 5 | 1 | | | 1.03 | 133 | 10 | | | | |
| -35+60 IP TOT | | 0.1 | 4 | 124 | 0.1 | 12 | 1 | | | 4.70 | 680 | 17 | | | | 14.96 |
| -80C TOT | 390 | 0.3 | 8 | 108 | 0.4 | 24 | 2 | 1 | | 2.50 | 551 | 49 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 1.2M
 ----- MODERATE(10-50%) 2 SEDIMENT SORTING = GOOD
 LITTLE(<10%) 1 X X X X X X X X X X
 NONE 0 X X X X X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 9.1KG
 BASIN AREA = 39.0KM**2

NTS-105G10

 * * *
 * SAMPLE * 81G0320 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 393000E -----
 -NORTHNG 829400N
 NTS- 105G11 G

DATE SAMPLED: 19JUN81
 SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0321 *
 * * *

SAMPLE 81G0321 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 4.07 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .16 |
| -60 HN TOT | 4800 | 0.2 | 6 | 34 | 0.2 | 30 | 2 | 110 | 12 | 1.26 | 226 | 12 | 0.2 | < 10 | | 15.93 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.21 |
| -60 HP TOT | | 0.1 | 13 | 155 | 0.1 | 40 | 3 | | | 9.95 | 3270 | 24 | 2.6 | | | 10.87 |
| -35+60 IP OX | | 0.1 | 2 | 28 | 0.1 | 12 | 1 | | | .98 | 255 | 12 | | | | . |
| -35+60 IP TOT | | 0.1 | 4 | 80 | 0.1 | 28 | 1 | | | 4.00 | 680 | 19 | | | | 21.47 |
| -800 TOT | 500 | 0.2 | 9 | 80 | 0.4 | 20 | 2 | 1 | | 2.10 | 665 | 18 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.6M |
| ----- | MODERATE(10-50%) | 2 | | X | X | | | X | | | | | | | | | SEDIMENT SORTING = GOOD |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 7.7KG
 BASIN AREA = 19.0KM**2

NTS-105G11

 * * *
 * SAMPLE * 81G0321 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
 ----- -EASTING 390000E ----- SAMPLERS : NM/NP
 -NORTHNG 830900N G
 NTS- 105G11

 * * * * *
 * SAMPLE * 81G0323 *
 * * * * *

SAMPLE 81G0323 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 3.32 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .12 |
| -60 HN TOT | 1600 | 5.2 | 2 | 38 | 0.2 | 16 | 2 | 350 | 4 | 1.22 | 370 | 8 | 0.2 | | 20 | 26.43 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.27 |
| -60 HP TOT | | 0.1 | 7 | 88 | 0.1 | 19 | 3 | | | 6.48 | 3000 | 10 | 0.8 | | | 25.35 |
| -35+60 IP OX | | 0.1 | 2 | 36 | 0.2 | 8 | 1 | | | 1.05 | 472 | 17 | | | | |
| -35+60 IP TOT | | 0.1 | 4 | 110 | 0.1 | 14 | 1 | | | 4.20 | 982 | 29 | | | | 12.45 |
| -80C TOT | 210 | 0.1 | 6 | 61 | 0.4 | 8 | 1 | 3 | | 1.20 | 615 | 17 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= SLOW TURBULENCE= STILL GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= VARIABLE MODERATE FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | POOR | MODERATE | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.0KG
 BASIN AREA = 16.0KM**2

NTS-105G11

 * * * * *
 * SAMPLE * 81G0323 *
 * * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09
----- -EASTING 390000E
-NORTHNG 830500N
NTS- 105G11

PROJECT

G

DATE SAMPLED: 19JUN81
SAMPLERS : NP/NM

* * *
* SAMPLE * 81G0324 *
* * *

SAMPLE
81G0324

----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 4.95 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .29 |
| -60 HN TOT | 4900 | 0.4 | 10 | 40 | 0.2 | 38 | 2 | 70 | 20 | 1.50 | 280 | 28 | 0.8 | 2840 | | 14.08 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 5.31 |
| -60 HP TOT | | 0.1 | 13 | 170 | 0.1 | 41 | 3 | | | 9.70 | 3680 | 27 | 2.6 | | | 11.25 |
| -35+60 IP OX | | 0.1 | 2 | 18 | 0.1 | 6 | 1 | | | 1.10 | 410 | 15 | | | | |
| -35+60 IP TOT | | 0.1 | 3 | 92 | 0.1 | 21 | 1 | | | 4.80 | 890 | 24 | | | | 33.87 |
| -80C TOT | 400 | 0.2 | 10 | 90 | 0.6 | 22 | 2 | 1 | | 2.00 | 1197 | 24 | | | | |

STREAM WIDTH= 3.6M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= VARIABLE MODERATE FE HYDROXIDES/RUST
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.6KG
BASIN AREA = 50.0KM**2

NTS-105G11

* * *
* SAMPLE * 81G0324 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 388100E -----
 -NORTHNG 835900N
 NTS- 105G11

DATE SAMPLED: 19JUN81
 SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0325 *
 * * *

SAMPLE 81G0325 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .68 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .08 |
| -60 HN TOT | 3600 | 0.2 | 4 | 58 | 0.2 | 18 | 2 | 80 | 8 | 1.36 | 296 | 22 | 0.2 | | 740 | 1.91 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .31 |
| -60 HP TOT | | 0.2 | 6 | 184 | 0.2 | 26 | 10 | | | 6.75 | 2260 | 17 | 1.6 | | | 2.49 |
| -35+60 IP OX | | 0.1 | 2 | 34 | 0.1 | 10 | 1 | | | 1.27 | 476 | 23 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 135 | 0.1 | 32 | 1 | | | 5.30 | 1250 | 29 | | | | 5.05 |

STREAM WIDTH= 1.2M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= HIGH GRADIENT= STEEP
 ----- DEPTH= 0.5M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BAFFLED BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|------------------------------|
| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | MAX. BOULDER SIZE= 1.2M |
| ----- | MODERATE(10-50%) | 2 | X | | | | | | | | | | | | | | SEDIMENT SORTING = VERY POOR |
| | LITTLE(<10%) | 1 | X | | | | | | | | | | | | | | DECAYED ORGANICS = LOW |
| | NONE | 0 | X | | | | | | | | | | | | | | |
| | | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 3.2KG
 BASIN AREA = 8.0KM**2

NTS-105G11

 * * *
 * SAMPLE * 81G0325 *
 * * *

EX033

H E A V Y M I N E R A L S

2CMAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
 ----- -EASTING 382900E -----
 -NORTHNG 828000N G
 NTS- 105G11

DATE SAMPLED: 19JUN81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0326 *
 * * *

SAMPLE 81G0326 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.49 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .02 |
| -60 HN TOT | 11500 | 0.2 | 84 | 90 | 0.2 | 110 | 2 | 320 | 80 | 3.80 | 1290 | 92 | 4 | < | 10 | 3.36 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 5.39 |
| -60 HP TOT | | 0.1 | 13 | 140 | 0.1 | 37 | 4 | | | 12.50 | 4700 | 38 | 2 | | | 15.84 |
| -35+60 IP OX | | 0.1 | 4 | 32 | 0.1 | 7 | 2 | | | 2.30 | 2500 | 36 | | | | |
| -35+60 IP TOT | | 0.1 | 10 | 203 | 0.3 | 34 | 1 | | | 8.95 | 2800 | 59 | | | | 15.00 |
| -80C TOT | 930 | 0.4 | 9 | 84 | 0.4 | 20 | 4 | 1 | | 2.30 | 2919 | 46 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= MODERATE
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DAR
 SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= HEAVY MN HYDROXIDES/BLACK
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | POOR | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 9.1KG
 BASIN AREA = 20.0KM**2

NTS-105G11

 * * *
 * SAMPLE * 81G0326 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
----- -EASTING 382000E - - - - -
-NORTHNG 826700N G
NTS- 105G11

DATE SAMPLED: 19JUN81
SAMPLERS : CH/

* * * * *
* SAMPLE * 81G0327 *
* * * * *

SAMPLE 81G0327

A S S A Y

R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.49 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .01 |
| -60 HN TOT | 4600 | 0.2 | 22 | 106 | 0.2 | 48 | 2 | 50 | 20 | 5.20 | 720 | 14 | 0.8 | < | 10 | 9.84 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.17 |
| -60 HP TOT | | 0.1 | 10 | 120 | 0.1 | 40 | 3 | | | 12.20 | 3780 | 10 | 1.2 | | | 11.72 |
| -35+60 IP OX | | 0.1 | 3 | 26 | 0.1 | 7 | 1 | | | 1.60 | 605 | 15 | | | | |
| -35+60 IP TOT | | 0.1 | 6 | 205 | 0.1 | 25 | 1 | | | 9.30 | 1350 | 19 | | | | 16.48 |
| -80C TOT | 530 | 0.3 | 8 | 91 | 0.2 | 23 | 3 | 1 | | 2.60 | 1717 | 22 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.6M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | |
|--|-----------------------------|
| SEDIMENT LOTS(>50%) 3 | MAX. BOULDER SIZE= 0.3M |
| ----- MODERATE(10-50%) 2 | SEDIMENT SORTING = MODERATE |
| LITTLE(<10%) 1 | DECAYED ORGANICS = LOW |
| NONE 0 | |
| BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY | GJ-SORTING PARAMETER = |
| | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 5.9KG
BASIN AREA = 14.0KM**2

NTS-105G11

* * * * *
* SAMPLE * 81G0327 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
----- -EASTING 379400E -----
-NORTHNG 827000N
NTS- 105G11

SAMPLERS : NM/NP

* * *
* SAMPLE * 81G0328 *
* * *

SAMPLE 81G0328 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.17 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 22000 | 0.6 | 12 | 118 | 1 | 104 | 2 | 350 | 188 | 2.48 | 700 | 30 | 0.4 | | 680 | 3.58 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.27 |
| -60 HP TOT | | 0.2 | 4 | 164 | 0.2 | 24 | 4 | | | 14.70 | 3900 | 11 | 2.4 | | | 7.76 |
| -35+60 IP OX | | 0.1 | 4 | 46 | 0.1 | 7 | 1 | | | 1.78 | 1380 | 27 | | | | |
| -35+60 IP TOT | | 0.4 | 9 | 180 | 0.1 | 30 | 1 | | | 7.70 | 2230 | 22 | | | | 7.22 |
| -80C TOT | 700 | 0.6 | 13 | 122 | 0.2 | 22 | 2 | 1 | | 3.10 | 4311 | 45 | | | | |

STREAM WIDTH= 1.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= HEAVY ORGANIC SLIME
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | POOR | MODERATE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.1KG
BASIN AREA = 12.0KM**2

NTS-105G11

* * *
* SAMPLE * 81G0328 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
-EASTING 379400E SAMPLERS : NP/NM
-NORTHNG 826600N G
NTS- 105G11

* * *
* SAMPLE * 81G0329 *
* * *

SAMPLE 81G0329 ----- A S S A Y R E S U L T S -----

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, and TOT for various depths (-60, -35+60, -80C).

STREAM WIDTH= 12.1M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
SAMPLE SITE= SIDE BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE
PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.6M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 7.3KG
BASIN AREA = 11.0KM**2

* * *
* SAMPLE * 81G0329 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
 ----- -EASTING 373600E -----
 -NORTHNG 826000N
 NTS- 105G11 G

SAMPLERS : NM/NP

 * * *
 * SAMPLE * 81G0330 *
 * * *

SAMPLE 81G0330 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.00 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | 1.14 |
| -60 HN TOT | 5500 | 0.2 | 32 | 96 | 1.2 | 50 | 2 | 80 | 4 | 3.04 | 310 | 6 | 0.4 | | 50 | 6.32 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | .06 |
| -60 HP TOT | | 0.2 | 20 | 176 | 0.2 | 32 | 4 | | | 14.30 | 2450 | 7 | 3.2 | | | 7.79 |
| -35+60 IP OX | | 0.1 | 3 | 43 | 0.1 | 7 | 1 | | | 1.82 | 192 | 10 | | | | |
| -35+60 IP TOT | | 0.4 | 7 | 208 | 0.1 | 24 | 1 | | | 9.50 | 730 | 12 | | | | 11.87 |
| -80C TOT | 270 | 0.2 | 11 | 107 | 0.6 | 19 | 1 | 1 | | 2.30 | 482 | 12 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.9M
 PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR BROWN SEDIMENT COLOR= BROWN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|--|--|------|------|--|--|--|--|--|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | X | X | X | | | | | | | | | | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | | X | X | X | X | | | X | X | | | | | | DECAYED ORGANICS = HIGH |
| | NONE | 0 | X | X | X | X | X | | | X | X | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | | | SILT | CLAY | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 8.6KG
 BASIN AREA = 4.0KM**2

NTS-105G11

 * * *
 * SAMPLE * 81G0330 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT
----- -EASTING 373100E -----
-NORTHNG 825500N
NTS- 105G11

DATE SAMPLED: 19JUN81
SAMPLERS : NP/NM

* * *
* SAMPLE * 81G0331 *
* * *

SAMPLE 81G0331 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|-------|--------|--------|--------|--------|--------|------|
| -60 HM TOT | | | | | | | | | | | | | | | | 1.91 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 10500 | 0.2 | 38 | 110 | 1 | 30 | 2 | 150 | 32 | 3.64 | 350 | 14 | 2.4 | < | 10 | 5.44 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 2.23 |
| -60 HP TOT | | 0.2 | 20 | 260 | 0.2 | 46 | 2 | | | 16.80 | 4500 | 23 | 4 | | | 6.02 |
| -35+60 IP OX | | 0.1 | 1 | 72 | 0.1 | 10 | 1 | | | 2.55 | 240 | 16 | | | | |
| -35+60 IP TOT | | 0.4 | 20 | 325 | 0.5 | 49 | 2 | | | 13.00 | 1020 | 53 | | | | 7.55 |
| -80C TOT | 350 | 0.3 | 11 | 118 | 0.8 | 20 | 2 | 1 | | 3.70 | 961 | 23 | | | | |

STREAM WIDTH= 0.9M WATER LEVEL= HIGH FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= STABLE BOTTOM STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | MODERATE | LOW | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.5KG
BASIN AREA = 10.0KM**2

NTS-105G11

* * *
* SAMPLE * 81G0331 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
----- -EASTING 371200E -----
-NORTHNG 826000N
NTS- 105G11

SAMPLERS : DC/

* * *
* SAMPLE * 81G0332 *
* * *

SAMPLE 81G0332 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 3.57 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .23 |
| -60 HN TOT | 2700 | 0.2 | 12 | 100 | 0.8 | 100 | 2 | 250 | 20 | 2.20 | 212 | 14 | 0.8 | | 520 | 4.15 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 3.78 |
| -60 HP TOT | | 0.2 | 8 | 370 | 0.2 | 20 | 2 | | | 12.90 | 3600 | 5 | 2.4 | | | 12.15 |
| -35+60 IP CX | | 0.1 | 1 | 22 | 0.1 | 2 | 1 | | | .90 | 82 | 6 | | | | |
| -35+60 IP TOT | | 0.1 | 3 | 120 | 0.1 | 7 | 1 | | | 6.15 | 735 | 10 | | | | 16.51 |
| -80C TOT | 160 | 0.2 | 6 | 97 | 0.5 | 14 | 1 | 1 | | 1.90 | 161 | 12 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | | | | | | | 0.0M | MODERATE | MODERATE | | |
| | | | | | X | X | X | X | X | X | X | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 6.8KG
BASIN AREA = 26.0KM**2

NTS-105G11

* * *
* SAMPLE * 81G0332 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 20JUN81
----- -EASTING 374700E -----
-NORTHNG 816200N
NTS- 105G06 G

DATE SAMPLED: 20JUN81
SAMPLERS : CH/

* * *
* SAMPLE * 81G0335 *
* * *

SAMPLE
81G0335

A S S A Y R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 25.06 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .59 |
| -60 HN TOT | 1400 | 0.6 | 92 | 76 | 0.2 | 46 | 2 | 1580 | 480 | 3.55 | 375 | 620 | 0.4 | 32500 | | 13.80 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 7.76 |
| -60 HP TOT | | 0.1 | 11 | 110 | 0.1 | 21 | 6 | | | 10.20 | 2700 | 16 | 0.8 | | | 43.89 |
| -35+60 IP.OX | | 0.2 | 6 | 11 | 0.1 | 3 | 1 | | | .95 | 180 | 10 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 118 | 0.1 | 15 | 1 | | | 7.85 | 785 | 24 | | | | 32.94 |
| -800 TOT | 100 | 0.2 | 11 | 64 | 0.3 | 15 | 1 | 9 | | 2.50 | 299 | 20 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= HIGH FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= LIGHT/SLIGHTLY CLOUDY WATER COLOR= CLEAR SEDIMENT COLOR= TAN

SAMPLE SITE= BETWEEN BOULDERS STREAM TYPE= STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = DEFINITE ORE TRUCKS/MINE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | | | | | X | X | | | | | 0.9M | GOOD | MODERATE | | |
| | 2 | | | | | X | X | X | X | X | | | | | | |
| | 1 | | | | | X | X | X | X | X | | | | | | |
| | 0 | | | | | X | X | X | X | X | | | | | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.2KG
BASIN AREA = 10.0KM**2

NTS-105G06

* * *
* SAMPLE * 81G0335 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9 PROJECT
 ----- -EASTING 380600E -----
 -NORTHNG 819500N
 NTS- 105G06 G

DATE SAMPLED: 19JUN81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0336 *
 * * *

SAMPLE 81G0336 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 5.46 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .37 |
| -60 HN TOT | 5800 | 2.2 | 62 | 190 | 2.4 | 128 | 2 | 300 | 28 | 5.70 | 500 | 220 | 14.4 | 1940 | | 7.42 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 11.47 |
| -60 HP TOT | | 1.1 | 63 | 460 | 1.9 | 115 | 4 | | | 25.80 | 1520 | 480 | 23 | | | 11.87 |
| -35+60 IP OX | | 0.1 | 1 | 62 | 0.2 | 17 | 2 | | | 3.00 | 475 | 110 | | | | |
| -35+60 IP TOT | | 0.1 | 19 | 360 | 1 | 63 | 1 | | | 11.00 | 1100 | 290 | | | | 31.05 |
| -80C TOT | 160 | 0.4 | 12 | 107 | 0.8 | 25 | 2 | 1 | | 2.60 | 667 | 84 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BLACK/DARKBROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|--|--|--|--|--|--|-----------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.0M |
| ----- | MODERATE(10-50%) | 2 | | | | X | X | X | X | X | | | | | | | SEDIMENT SORTING = MODERATE |
| | LITTLE(<10%) | 1 | | X | X | X | X | X | X | X | | | | | | | DECAYED ORGANICS = MODERATE |
| | NONE | 0 | X | X | X | X | X | X | X | X | | | | | | | GJ-SORTING PARAMETER = |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 7.3KG
 BASIN AREA = 11.0KM**2

NTS-105G06

 * * *
 * SAMPLE * 81G0336 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
----- -EASTING 381800E - - - - -
-NORTHNG 815700N G
NTS- 105G06

DATE SAMPLED: 19JUN81
SAMPLERS : NP/NM

* * * * *
* SAMPLE * 81G0338 *
* * * * *

SAMPLE 81G0338 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .90 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .02 |
| -60 HN TOT | 600 | 0.6 | 84 | 124 | 0.2 | 162 | 4 | 190 | 28 | 5.55 | 460 | 350 | 0.8 | | 20 | 12.17 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 7.20 |
| -60 HP TOT | | 0.2 | 28 | 120 | 0.1 | 60 | 3 | | | 15.30 | 2700 | 75 | 1.2 | | | |
| -35+60 IP CX | | 0.1 | 6 | 20 | 0.1 | 8 | 1 | | | 1.20 | 225 | 22 | | | | |
| -35+60 IP TOT | | 0.1 | 14 | 185 | 0.1 | 42 | 1 | | | 10.00 | 850 | 92 | | | | 39.40 |
| -80C TOT | 50 | 0.4 | 19 | 98 | 0.3 | 29 | 2 | 1 | | 3.50 | 427 | 53 | | | | |

STREAM WIDTH= 1.8M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN GREY
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= LEFT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | GOOD | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE.
----- WEIGHT= 9.1KG
BASIN AREA = 6.0KM**2

NTS-105G06

* * * * *
* SAMPLE * 81G0338 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
-EASTING 382300E SAMPLERS : NM/NP
-NORTHNG 815500N G
NTS- 105G06

* * *
* SAMPLE * 81G0339 *
* * *

SAMPLE 81G0339 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include tests like -60 HM TOT, -35+60 IM TOT, etc.

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= TAN BROWN
SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
PRECIPITATE OR STAIN= NONE
CONTAMINATION = POSSIBLE ROAD

Table with columns: SEDIMENT, LOTS(>50%), MODERATE(10-50%), LITTLE(<10%), NONE, BOULDERS, COBBLES, PEBBLES, GRANULES, SAND, SILT, CLAY, MAX. BOULDER SIZE, SEDIMENT SORTING, DECAYED ORGANICS, GJ-SORTING PARAMETER, GJ-COARSENESS PARAMETER.

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 9.1KG
BASIN AREA = 25.0KM**2

* * *
* SAMPLE * 81G0339 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 20JUN81
----- -EASTING 384500E - - - - -
-NORTHNG 815300N G
NTS- 105G06

DATE SAMPLED: 20JUN81
SAMPLERS : CH/

* * * * *
* SAMPLE * 81G0340 *
* * * * *

| SAMPLE | | A S S A Y | | | | | | | | | | | | | | R E S U L T S | |
|---------|--------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-------|------|-----|-----|------|---------------|-------|
| 81G0340 | | SA | AG | PB | ZN | CD | CU | MO | W | SN | FE | MN | AS | SB | HG | AU | WT |
| TEST | | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | PPM | % | PPM | PPM | PPM | PPM | PPB | G |
| -60 | HM TOT | | | | | | | | | | | | | | | | .58 |
| -35+60 | IM TOT | | | | | | | | | | | | | | | | .02 |
| -60 | HN TOT | 700 | 0.2 | 14 | 96 | 0.6 | 26 | 2 | 700 | 68 | 2.96 | 460 | 154 | 0.4 | < 10 | | 14.33 |
| -35+60 | IN TOT | | | | | | | | | | | | | | | | 2.04 |
| -60 | HP TOT | | 0.2 | 4 | 164 | 0.2 | 18 | 2 | | | 11.70 | 4500 | 50 | 0.4 | | | 22.97 |
| -35+60 | IP OX | | 0.1 | 3 | 31 | 0.1 | 11 | 1 | | | .91 | 298 | 90 | | | | |
| -35+60 | IP TOT | | 0.2 | 6 | 194 | 0.1 | 28 | 1 | | | 9.15 | 1030 | 190 | | | | 13.28 |
| -80C | TOT | 50 | 0.1 | 6 | 61 | 0.3 | 6 | 1 | 1 | | 1.40 | 201 | 28 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.4M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.0M
 ----- MODERATE(10-50%) 2 X SEDIMENT SORTING = MODERATE
 LITTLE(<10%) 1 X X X X X DECAYED ORGANICS = MODERATE
 NONE 0 X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.1KG
BASIN AREA = 16.0KM**2

NTS-105G06

* * * * *
* SAMPLE * 81G0340 *
* * * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 20JUN81
 ----- -EASTING 391600E -----
 -NORTHNG 816800N
 NTS- 105G06 G

DATE SAMPLED: 20JUN81
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0342 *
 * * *

SAMPLE 81G0342 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | .65 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .03 |
| -60 HN TOT | 400 | 0.4 | 120 | 106 | 0.2 | 46 | 2 | 210 | 32 | 4.60 | 710 | 20 | 0.8 | 260 | | 18.13 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 8.09 |
| -60 HP TOT | | 0.1 | 14 | 120 | 0.1 | 23 | 2 | | | 11.50 | 3930 | 20 | 0.1 | | | 16.49 |
| -35+60 IP OX | | 0.1 | 5 | 27 | 0.1 | 4 | 1 | | | 1.20 | 630 | 29 | | | | |
| -35+60 IP TOT | | 0.1 | 10 | 165 | 0.2 | 17 | 1 | | | 6.25 | 1100 | 50 | | | | 33.71 |
| -80C TOT | 230 | 0.3 | 20 | 227 | 0.9 | 28 | 2 | 1 | | 3.20 | 1393 | 63 | | | | |

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.1M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MAX. BOULDER SIZE= 0.3M
 ----- MODERATE(10-50%) 2 X X SEDIMENT SORTING = POOR
 LITTLE(<10%) 1 X X X X X X DECAYED ORGANICS = HIGH
 NONE 0 X X X X X X
 BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 6.8KG
 BASIN AREA = 9.0KM**2

NTS-105G06

 * * *
 * SAMPLE * 81G0342 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE C9
----- -EASTING 382700E
-NORTHNG 822700N
NTS- 105G12

PROJECT

G

DATE SAMPLED: 20JUN81
SAMPLERS : DC/

* * *
* SAMPLE * 81G0343 *
* * *

SAMPLE
81G0343

A S S A Y R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.75 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | 1550 | 0.6 | 54 | 186 | 0.2 | 170 | 4 | 40 | 8 | 10.90 | 1120 | 72 | 2.4 | | 10 | 15.71 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 22.90 |
| -60 HP TOT | | 0.1 | 24 | 115 | 0.1 | 74 | 2 | | | 14.50 | 3700 | 23 | 1.2 | | | 16.94 |
| -35+60 IP OX | | 0.1 | 5 | 26 | 0.1 | 10 | 1 | | | 1.80 | 440 | 7 | | | | |
| -35+60 IP TOT | | 0.1 | 12 | 208 | 0.1 | 44 | 1 | | | 110.00 | 1150 | 19 | | | | 87.97 |
| -80C TOT | 180 | 0.3 | 16 | 102 | 0.4 | 32 | 2 | 1 | | 3.50 | 453 | 13 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
----- DEPTH= 0.2M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= BACK EDDY STREAM TYPE= MEANDR/STRAIGHT SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | X | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|--|
| ----- | MODERATE(10-50%) | 2 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | | |

MAX. BOULDER SIZE= 0.3M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = NONE
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 7.7KG
BASIN AREA = 3.0KM**2

NTS-105G12

* * *
* SAMPLE * 81G0343 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 19JUN81
-EASTING 384500E SAMPLERS : NM/NP
-NORTHNG 821700N G
NTS- 105G12

* * *
* SAMPLE * 81G0344 *
* * *

SAMPLE 81G0344 A S S A Y R E S U L T S

Table with columns: TEST, BA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, TOT.

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.1M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER

PRECIPITATE OR STAIN= SLIGHT FE HYDROXIDES/RUST
CONTAMINATION = NONE

SEDIMENT LOTS(>50%) 3 MODERATE(10-50%) 2 LITTLE(<10%) 1 NONE 0
BOULDERS COBBLES PEBBLES GRANULES SAND SILT CLAY
MAX. BOULDER SIZE= 0.6M
SEDIMENT SORTING = POOR
DECAYED ORGANICS = LOW
GJ-SORTING PARAMETER =
GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 10.5KG
BASIN AREA = 5.0KM**2

NTS-105G12

* * *
* SAMPLE * 81G0344 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 391000E -----
 -NORTHNG 820000N
 NTS- 105G12

DATE SAMPLED: 19JUN81
 SAMPLERS : DC/

 * * *
 * SAMPLE * 81G0345 *
 * * *

SAMPLE 81G0345 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.69 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 400 | 0.2 | 20 | 72 | 0.4 | 64 | 2 | 400 | 12 | 2.28 | 280 | 44 | 0.4 | < | 10 | 39.74 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 4.79 |
| -60 HP TOT | | 0.2 | 10 | 120 | 0.2 | 18 | 2 | | | 9.70 | 3300 | 19 | 1.6 | | | 56.27 |
| -35+60 IP CX | | 0.1 | 4 | 17 | 0.1 | 4 | 1 | | | .90 | 88 | 29 | | | | |
| -35+60 IP TOT | | 0.1 | 8 | 112 | 0.1 | 12 | 1 | | | 5.85 | 655 | 35 | | | | 13.00 |
| -80C TOT | 120 | 0.1 | 12 | 70 | 0.4 | 17 | 2 | 3 | | 2.20 | 306 | 39 | | | | |

STREAM WIDTH= 4.5M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LGW
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= GREY BROWN

SAMPLE SITE= SIDE BAR STREAM TYPE= BRAID/MEANDR SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= NONE
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---------------------------|
| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.6M |
| ----- | MODERATE(10-50%) | 2 | | | | X | X | X | X | X | X | X | X | X | X | X | SEDIMENT SORTING = POOR |
| | LITTLE(<10%) | 1 | X | | X | X | X | X | X | X | X | X | X | X | X | X | DECAYED ORGANICS = NONE |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 10.5KG
 BASIN AREA = 24.0KM**2

NTS-105G12

 * * *
 * SAMPLE * 81G0345 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
----- -EASTING 395600E -----
-NORTHNG 820800N
NTS- 105G11

DATE SAMPLED: 19JUN81
SAMPLERS : DC/

* * *
* SAMPLE * 81G0346 *
* * *

SAMPLE 81G0346 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 9.97 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | < .01 |
| -60 HN TOT | 400 | 0.2 | 4 | 44 | 0.4 | 28 | 2 | 150 | 4 | 1.32 | 200 | 18 | 0.2 | | 140 | 28.53 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 7.49 |
| -60 HP TOT | | 0.2 | 6 | 130 | 0.2 | 24 | 2 | | | 7.20 | 2350 | 20 | 0.4 | | | 35.24 |
| -35+60 IP OX | | 0.1 | 3 | 23 | 0.1 | 5 | 1 | | | .72 | 150 | 20 | | | | |
| -35+60 IP TOT | | 0.1 | 9 | 138 | 0.1 | 25 | 2 | | | 5.05 | 760 | 36 | | | | 44.49 |
| -80C TOT | 40 | 0.1 | 13 | 105 | 0.4 | 19 | 1 | 1 | | 2.20 | 318 | 23 | | | | |

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= SLIGHT GRADIENT= LOW
----- DEPTH= 0.3M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN

SAMPLE SITE= OTHER STREAM TYPE= BRAID/MEANDR SAMPLE POSITION= LEFT SIDE

PRECIPITATE OR STAIN= NONE
CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.3M | POOR | NONE | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 8.6KG
BASIN AREA = 13.0KM**2

NTS-105G11

* * *
* SAMPLE * 81G0346 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 20JUN81
----- -EASTING 386000E -----
-NORTHNG 810000N
NTS- 105G06

SAMPLERS : CH/

* * *
* SAMPLE * 81G0347 *
* * *

SAMPLE 81G0347

A S S A Y R E S U L T S

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|--------|------|--------|--------|--------|--------|--------|-------|
| -60 HM TOT | | | | | | | | | | | | | | | | .82 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .07 |
| -60 HN TOT | 500 | 1 | 60 | 134 | 0.2 | 52 | 4 | 4000 | 1240 | 3.55 | 460 | 290 | 2.4 | | 30 | 14.09 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 10.49 |
| -60 HP TOT | | 0.3 | 16 | 130 | 0.3 | 44 | 3 | | | 8.80 | 3540 | 95 | 0.6 | | | 24.74 |
| -35+60 IP OX | | 0.1 | 4 | 22 | 0.1 | 4 | 1 | | | 1.20 | 200 | 73 | | | | |
| -35+60 IP TOT | | 0.1 | 5 | 98 | 0.1 | 13 | 1 | | | 4.70 | 550 | 99 | | | | 36.79 |
| -80C TOT | 230 | 0.2 | 17 | 128 | 0.7 | 22 | 2 | 26 | | 2.60 | 445 | 102 | | | | |

STREAM WIDTH= 1.2M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.3M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= STRAIGHT SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= VARIABLE MODERATE FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | MODERATE(10-50%) | LITTLE(<10%) | NONE | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | MAX. BOULDER SIZE= | SEDIMENT SORTING = | DECAYED ORGANICS = | GJ-SORTING PARAMETER = | GJ-COARSENESS PARAMETER = |
|----------|------------|------------------|--------------|------|----------|---------|---------|----------|------|------|------|--------------------|--------------------|--------------------|------------------------|---------------------------|
| | 3 | 2 | 1 | 0 | | X | X | X | X | X | X | 0.6M | GOOD | LOW | | |

SAMPLE STATUS= ROUTINE SAMPLE
----- WEIGHT= 9.1KG
BASIN AREA = 9.0KM**2

NTS-105G06

* * *
* SAMPLE * 81G0347 *
* * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 386500E -----
 -NORTHNG 810900N
 NTS- 105G06

DATE SAMPLED: 20JUN81
 SAMPLERS : CH/

 * * *
 * SAMPLE * 81G0348 *
 * * *

SAMPLE 81G0348 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | 2.00 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .06 |
| -60 HN TOT | 300 | 1.6 | 18 | 58 | 0.2 | 46 | 2 | 4200 | 112 | 1.60 | 300 | 6 | 0.2 | 2080 | | 8.69 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 12.08 |
| -60 HP TOT | | 0.2 | 16 | 106 | 0.4 | 28 | 2 | | | 8.20 | 4200 | 41 | 0.4 | | | 37.59 |
| -35+60 IP OX | | 0.1 | 3 | 24 | 0.1 | 3 | 1 | | | .70 | 126 | 36 | | | | |
| -35+60 IP TOT | | 0.1 | 10 | 80 | 0.1 | 9 | 1 | | | 1.10 | 120 | 3 | | | | 116.58 |
| -80C TOT | 130 | 0.4 | 19 | 170 | 0.9 | 26 | 2 | 6 | | 3.40 | 496 | 120 | | | | |

STREAM WIDTH= 6.1M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= LOW
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= LONGITUDINAL BAR STREAM TYPE= BRAIDED SAMPLE POSITION= CENTER
 PRECIPITATE OR STAIN= MODERATE FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| SEDIMENT | LOTS(>50%) | 3 | | | | | | | | | | | | | | | |
|----------|------------------|---|----------|---------|---------|----------|------|------|------|---|---|---|---|---|---|---|---|
| ----- | MODERATE(10-50%) | 2 | | X | X | | | | | | | | | | | | |
| | LITTLE(<10%) | 1 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | NONE | 0 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| | | | BOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | |

MAX. BOULDER SIZE= 0.6M
 SEDIMENT SORTING = GOOD
 DECAYED ORGANICS = LOW
 GJ-SORTING PARAMETER =
 GJ-COARSENESS PARAMETER =

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 9.5KG
 BASIN AREA = 11.0KM**2

NTS-105G06

 * * *
 * SAMPLE * 81G0348 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT
 ----- -EASTING 386100E -----
 -NORTHNG 807100N
 NTS- 105G06 G

DATE SAMPLED: 20JUN81
 SAMPLERS : NM/

 * * *
 * SAMPLE * 81G0349 *
 * * *

SAMPLE 81G0349 ----- A S S A Y R E S U L T S -----

| TEST | BA PPM | AG PPM | PB PPM | ZN PPM | CD PPM | CU PPM | MO PPM | W PPM | SN PPM | FE. % | MN PPM | AS PPM | SB PPM | HG PPM | AU PPB | WT G |
|---------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|---------|
| -60 HM TOT | | | | | | | | | | | | | | | | < .01 |
| -35+60 IM TOT | | | | | | | | | | | | | | | | .09 |
| -60 HN TOT | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | < | 15 | .74 |
| -35+60 IN TOT | | | | | | | | | | | | | | | | 1.46 |
| -60 HP TOT | | 0.2 | 4 | 90 | 0.2 | 18 | 2 | | | 6.65 | 2150 | 7 | 0.4 | | | 3.33 |
| -35+60 IP OX | | 0.1 | 10 | 29 | 0.1 | 5 | 1 | | | 1.32 | 200 | 6 | | | | |
| -35+60 IP TOT | | 0.5 | 18 | 180 | 0.1 | 21 | 1 | | | 8.00 | 870 | 3 | | | | 6.69 |
| -80C TOT | 90 | 0.5 | 28 | 107 | 0.8 | 23 | 1 | 28 | | 2.40 | 329 | 184 | | | | |

STREAM WIDTH= 2.4M WATER LEVEL= NORMAL FLOW RATE= FAST TURBULENCE= MODERATE GRADIENT= MODERATE
 ----- DEPTH= 0.2M
 PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR SEDIMENT COLOR= BROWN
 SAMPLE SITE= SIDE BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE
 PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
 CONTAMINATION = NONE

| | | | | | | | | | | | | | | | | | |
|---------------------|---|---|----------|---------|---------|----------|------|------|------|--|--|--|--|--|--|--|-----------------------------|
| SEDIMENT LOTS(>50%) | 3 | | | | | | | | | | | | | | | | MAX. BOULDER SIZE= 0.3M |
| MODERATE(10-50%) | 2 | | | | | | | | | | | | | | | | SEDIMENT SORTING = MODERATE |
| LITTLE(<10%) | 1 | X | | | | | | | | | | | | | | | DECAYED ORGANICS = MODERATE |
| NONE | 0 | | X | | | | | | | | | | | | | | |
| | | | SOULDERS | COBBLES | PEBBLES | GRANULES | SAND | SILT | CLAY | | | | | | | | GJ-SORTING PARAMETER = |
| | | | | | | | | | | | | | | | | | GJ-COARSENESS PARAMETER = |

SAMPLE STATUS= ROUTINE SAMPLE
 ----- WEIGHT= 7.7KG
 BASIN AREA = 7.0KM**2

NTS-105G06

 * * *
 * SAMPLE * 81G0349 *
 * * *

EX033

H E A V Y M I N E R A L S

20MAY82

LOCATION UTM-ZONE 09 PROJECT DATE SAMPLED: 20JUN81
-EASTING 385100E.
-NORTHNG 805700N
NTS- 105G06

SAMPLERS : NM/

* * *
* SAMPLE * 81G0350 *
* * *

SAMPLE 81G0350

A S S A Y R E S U L T S

Table with columns: TEST, SA PPM, AG PPM, PB PPM, ZN PPM, CD PPM, CU PPM, MO PPM, W PPM, SN PPM, FE %, MN PPM, AS PPM, SB PPM, HG PPM, AU PPB, WT G. Rows include HM TOT, IM TOT, HN TOT, IN TOT, HP TOT, IP OX, IP TOT, and TOT.

STREAM WIDTH= 3.0M WATER LEVEL= NORMAL FLOW RATE= MODERATE TURBULENCE= MODERATE GRADIENT= MODERATE
DEPTH= 0.4M
PH = SUSPENDED MATTER= NONE WATER COLOR= CLEAR GREEN SEDIMENT COLOR= TAN

SAMPLE SITE= POINT BAR STREAM TYPE= MEANDERING SAMPLE POSITION= RIGHT SIDE

PRECIPITATE OR STAIN= VARIABLE SLIGHT FE HYDROXIDES/RUST
CONTAMINATION = NONE

Table with columns: SEDIMENT, LOTS(>50%), MODERATE(10-50%), LITTLE(<10%), NONE, BOULDERS, COBBLES, PEBBLES, GRANULES, SAND, SILT, CLAY, MAX. BOULDER SIZE, SEDIMENT SORTING, DECAYED ORGANICS, GJ-SORTING PARAMETER, GJ-COARSENESS PARAMETER.

SAMPLE STATUS= ROUTINE SAMPLE
WEIGHT= 8.6KG
BASIN AREA = 9.0KM**2

NTS-105G06

* * *
* SAMPLE * 81G0350 *
* * *
