

402268 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 27.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4701 TIME TAKEN 10/07/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.775 (45 46' 30") LONG 103.626 (103 37' 33") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5 MIN TOPO QUAD, SAMPLE COLLECTED STARTING 25M UPSTREAM OF CONFLUENCE OVER A 20M INTERVAL;
 1-60 BUFFALO OIL FIELD;

402269 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4702 TIME TAKEN 11/07/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.782 (45 46' 55") LONG 103.635 (103 38' 6") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.20 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5 TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 30M BELOW DAM NEXT TO A DEEP DRAW TO NORTH, FROM
 CENTER OF STREAM CHANNEL;
 1-60 BUFFALO OIL FIELD;

402270 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4703 TIME TAKEN 11/07/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.778 (45 46' 40") LONG 103.647 (103 38' 49") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5 TOPO QUAD, SAMPLE COLLECTED STARTING 25M UPSTREAM OF CONFLUENCE OVER A 20M INTERVAL FROM MIDDLE OF CHANNEL;
 1-60 BUFFALO OIL FIELD;

402271 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4704 TIME TAKEN 12/07/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.774 (45 46' 26") LONG 103.662 (103 39' 43") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5 TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 20M BELOW CONFLUENCE OF 2 STREAMS IN STUDY AND COLLECTED FROM MIDDLE OF STREAM:
 1-60 BUFFALO OIL FIELD, BUT SHOULDN'T INFLUENCE THIS STREAM:

402272 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCST
 PHASE E MAP NL1309 SITE 4705 TIME TAKEN 12/07/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.775 (45 46' 30") LONG 103.666 (103 39' 57") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL POOLS
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5 TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 50M UPSTREAM OF DAM, FROM MID-STREAM;
 1-60 NEAR BUFFALO FIELD, BUT SHOULD BE UNAFFECTED:

402273 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER -OVERCST
 PHASE E MAP NL1309 SITE 4706 TIME TAKEN 13/07/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.775 (45 46' 30") LONG 103.657 (103 39' 25") CONTAMINANTS NONE STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 0.30 DEPTH(M) 0.10 LEVEL POOLS
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5 MIN TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 35M UPSTREAM FROM CONFLUENCE FROM MID-STREAM:

402274 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCST
 PHASE E MAP NL1309 SITE 4707 TIME TAKEN 13/07/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.799 (45 47' 56") LONG 103.636 (103 38' 9") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 15.00 DEPTH(M) 3.00 LEVEL POOLS
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 LADNER 7.5 TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 35M UPSTREAM OF ROAD AND BEAVER DAM FROM SOUTHERN SIDE OF POND;
 1-60 AT BASE OF BUFFALO OIL FIELD;
 1-63 BEAVER DAMS:

402275 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER CALM-OVERCST
 PHASE E MAP NL1309 SITE 4708 TIME TAKEN 13/07/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.801 (45 48' 3") LONG 103.635 (103 38' 6") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY

SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF ROAD FROM MID-STREAM;
1-60 BUFFALO OIL FIELD NEARBY;

402276 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER CALM-PT CLDY
PHASE E MAP NL1309 SITE 4709 TIME TAKEN 13/07/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
LOCATION: LAT 45.807(45 48' 25") LONG 103.627(103 37' 37") CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE FROM MID-STREAM;

402278 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER CALM-PT CLDY
PHASE E MAP NL1309 SITE 4710 TIME TAKEN 14/07/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
LOCATION: LAT 45.807(45 48' 25") LONG 103.633(103 37' 58") CONTAMINANTS NONE STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL POOLS

SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 60M UPSTREAM OF ROAD FROM MIDSTREAM;

402279 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 0111 TIME TAKEN 11/08/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
LOCATION: LAT 45.768(45 46' 4") LONG 103.694(103 41' 38") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED STARTING 60M UPSTREAM OF CONFLUENCE OVER A 20M INTERVAL FROM MID-STREAM;
1-60 NEAR BUFFALO OIL FIELD;

402280 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4712 TIME TAKEN 11/08/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
LOCATION: LAT 45.791(45 47' 27") LONG 103.692(103 41' 31") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 0.50 DEPTH(M) 0.60 LEVEL HIGH
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:
 I-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 20M UPSTREAM FROM WHERE NEARBY ROAD GOES ONTO FLOOD
 PLAIN FROM WESTERN BANK;
 I-60 OIL WELLS & EXTRACTORS UPSTREAM;

402281 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4713 TIME TAKEN 12/08/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.799(45 47'56") LONG 103.686(103 41' 9") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 25

REMARKS:
 I-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 35M UPSTREAM OF CONFLUENCE FROM MID-CHANNEL;

402282 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4714 TIME TAKEN 12/08/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.803(45 48'10") LONG 103.677(103 40'37") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) 0.30
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.70 LEVEL HIGH
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 25

REMARKS:
 I-38 LADNER 7.5' TOPO QUAD, COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF WHERE "TRAIL" CROSSES CREEK FROM NORTH BANK;
 I-60 SAMPLE POSSIBLY CONTAMINATED BY NEARBY OIL WELL & EXTRACTOR;

402283 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4715 TIME TAKEN 12/08/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.807(45 48'25") LONG 103.673(103 40'22") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 25

REMARKS:
 I-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING .25 MILES WEST AND .1M NORTH OF WHERE CREEK CROSSES
 ROAD;

402284 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4716 TIME TAKEN 12/08/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.803 (45 48' 10") LONG 103.661 (103 39' 39") CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM FROM DRIVEWAY FROM MID-STREAM;

402285 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4717 TIME TAKEN 12/08/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.800 (45 48' 0") LONG 103.661 (103 39' 39") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF DRIVEWAY FROM MID-STREAM;
 1-60 OIL WELL JUST UPSTREAM, PLUS STREAM BED VERY SILTED IN;

402286 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4718 TIME TAKEN 13/08/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.792 (45 47' 31") LONG 103.665 (103 39' 54") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 40M DOWNSTREAM OF SMALL STOCK DAM FROM MID-STREAM;
 1-60 OIL WELL 80M UPSTREAM;

402287 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4719 TIME TAKEN 13/08/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.818 (45 49' 4") LONG 103.653 (103 39' 10") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 40M UPSTREAM OF CONFLUENCE FROM MID-CHANNEL;
 1-60 OIL WELL 180M UPSTREAM;

402288 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4720 TIME TAKEN 14/08/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.826 (45 49'33") LONG 103.672 (103 40'19") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 20M UPSTREAM OF CONFLUENCE FROM MID-STREAM;
 1-60 UPSTREAM OF OIL WELLS;

402289 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4721 TIME TAKEN 14/08/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.825 (45 49'30") LONG 103.671 (103 40'15") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 20M UPSTREAM OF CONFLUENCE FROM MID-CHANNEL;
 1-60 UPSTREAM 60M OF OIL WELLS;

402290 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4722 TIME TAKEN 14/08/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.827 (45 49'37") LONG 103.666 (103 39'57") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.30 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF WHERE ROAD CROSSES CREEK FROM
 MID-CHANNEL;
 1-60 UPSTREAM OF OIL WELL 40M;

402291 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4723 TIME TAKEN 14/08/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.829 (45 49'44") LONG 103.664 (103 39'50") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 40M UPSTREAM FROM CONFLUENCE FROM MID-STREAM;

1-60 PLOWED FIELD ALONG BANKS UPSTREAM:

402292 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4724 TIME TAKEN 15/08/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.829 (45 49' 44") LONG 103.661 (103 39' 39") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LADNER 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF BARBED WIRE FENCE ACROSS CREEK FROM MID-STREAM;
 1-60 PLOWED FIELDS ALONG BANK:

402293 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 28.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4725 TIME TAKEN 12/09/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.726 (45 43' 33") LONG 103.461 (103 27' 39") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 80M DOWNSTREAM OF WHERE TRAIL CROSSES CREEK FROM MID-STREAM;
 1-60 LAND (MOSTLY) PLOWED ALONG BANKS ALONG WHOLE CREEK;
 1-78 CAVE HILLS CATTLE CO & BOX 27 & BUFFALO, SD 57720;

402294 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4726 TIME TAKEN 12/09/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.745 (45 44' 42") LONG 103.484 (103 29' 2") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 35M SOUTH OF TRAIL AND 40M NORTH OF TREES IN NEXT DRAW FROM MID-CHANNEL;
 1-60 PLOWED FIELDS ALL AROUND;
 1-78 CAVE HILLS CATTLE COMPANY & BUFFALO, SD 57720;

402295 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4727 TIME TAKEN 12/09/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.745 (45 44' 42") LONG 103.482 (103 28' 55") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 5M UPSTREAM OF TREES FROM MID-CHANNEL;
 1-60 INTENSIVE PLOWING ALL AROUND STREAM BASIN;
 1-78 CAVE HILLS CATTLE CO & BOX 27 & BUFFALO, SD 57720;

402391 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4138 TIME TAKEN 14/10/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.413 (45 24'46") LONG 103.208 (103 12'28") CONTAMINANTS NONE STREAM FLOW(M/SEC) 0.10
 SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 0.50 DEPTH(M) 0.10 LEVEL NORMAL
 BED MATERIAL PEBBLE SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 J. B. HILL, 7.5' QUAD., SAMPLE TAKEN OVER A 50 M INTERVAL, GOING UPSTREAM, STARTING AT ROAD DRAW SPRING NO. 1;

402392 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4139 TIME TAKEN 14/10/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.414 (45 24'50") LONG 103.208 (103 12'28") CONTAMINANTS NONE SAMPLE: COLOR -CL ODOR NONE
 SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 550 DISSOLVED OXYGEN(PPM) 12.0
 WATER TEMP(C) + 12.5 VISIBILITY(M) CLEAR PH 9.4 LO-TON PAPER
 TOTAL ALKALINITY(PPM) 320 P ALKALINITY(PPM) 50 M ALKALINITY(PPM) 320
 APPEARANCE CLEAR DISCHARGE(L/M) 3.00
 PRODUCING HORIZON TOH CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J. B. HILL, 7.5' QUAD., SAMPLE TAKEN FROM PIPE TO STOCK TANK, ROAD DRAW SPRING, NO. 1, JUST SOUTH OF THE J. B. ROAD;

402393 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.6 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4140 TIME TAKEN 15/10/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.416 (45 24'57") LONG 103.208 (103 12'28") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 01

REMARKS:

J-38 J B HILL 7.5' MAP, SAMPLE TAKEN 40 M UPSTREAM FROM POND, OVER 20 M INTERVAL, STARTING 4 M NORTH OF TREE IN MIDDLE OF CHANNEL:
 J-60 GRASS IN STREAM BED:

402394 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4141 TIME TAKEN 16/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.391 (45 23'27") LONG 103.193 (103 11'34") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 560 DISSOLVED OXYGEN(PPM) 11.3
 WATER TEMP(C) + 11.0 VISIBILITY(M) CLEAR PH 8.9 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 328 P ALKALINITY(PPM) 12 M ALKALINITY(PPM) 324
 APPEARANCE CLEAR DISCHARGE(L/M) 15.00
 PRODUCING HORIZON TOW CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION STEEL
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

J-38 7.5' QUAD., SAMPLE TAKEN FROM PIPE TO STOCK TANK, RED TANK SPRING, LOCATED ABOUT 1KM EAST OF RABBIT CREEK SPRING:

402395 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 29.5 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4142 TIME TAKEN 17/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.455 (45 27'18") LONG 103.179 (103 10'44") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 350 DISSOLVED OXYGEN(PPM) 9.2
 WATER TEMP(C) + 13.2 VISIBILITY(M) CLEAR PH 8.1 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 160 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 160
 APPEARANCE CLEAR DISCHARGE(L/M) 2.00
 PRODUCING HORIZON TOW CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

J-38 J B HILL 7.5' QUAD., SAMPLE TAKEN FROM PIPE TO STOCK TANK, GRAY SPRING, LOCATED UP VALLEY JUST OVER FOREST BOUNDARY TO THE WEST:

402396 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-CLEAR:

PHASE E MAP NL1309 SITE 4039 TIME TAKEN 13/12/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.414 (45 24'50") LONG 103.034 (103 2' 2") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 20

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 10 M UPSTREAM OF FORK AND OVER A 21 M INTERVAL:
 1-60 GRASS AND SHRUBS GROWING IN STREAM:
 1-78 VERNON HAMMEN & SORUM, S.D. 57654:

402397 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4040 TIME TAKEN 13/12/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.413 (45 24'46") LONG 103.037 (103 2'13") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 60 M UPSTREAM OF FORK WHERE STREAM MEANDERS SOUTH AND OVER A 20 M INTERVAL:
 1-60 GRASS AND SHRUBS GROWING THICK IN STREAM:
 1-78 VERNON HAMMEN & SORUM, S.D. 57654:

402398 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 31.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4041 TIME TAKEN 16/12/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.424 (45 25'26") LONG 103.049 (103 2'56") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) 4.00 DEPTH(M) 0.40 LEVEL LOW
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 21 M INTERVAL BEGINNING AT POINT WHERE STREAM MEANDERS WEST (GOING UPSTREAM) OF NORTH SOUTH FLOW:

402399 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4042 TIME TAKEN 16/12/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.419 (45 25' 8") LONG 103.055 (103 3'18") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) 4.00 DEPTH(M) 0.50 LEVEL LOW
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL HEADING DOWNSTREAM AND BEGINNING 50 M DOWNSTREAM OF DIRT PATH:

1-60 DIRT PATH CROSSES STREAM AND GRASS GROWS IN THE STREAM ON THE UPSTREAM SIDE OF THE ROAD:

402400 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4043 TIME TAKEN 10/16/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.547 (45 32' 49") LONG 103.128 (103 7' 40") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING AT LARGE TREE ON BANK AND HEADING UPSTREAM;
 1-60 STOCK IN AREA AND GRASS IN STREAM BED:

402401 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 27.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4044 TIME TAKEN 10/16/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.551 (45 33' 3") LONG 103.143 (103 8' 34") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.30 DEPTH(M) 0.20 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING AT LARGE BUSH ON BANK AND HEADING UPSTREAM;
 1-60 GRASS IN STREAM (HEAVY):

402402 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4045 TIME TAKEN 10/16/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.554 (45 33' 14") LONG 103.155 (103 9' 18") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.30 DEPTH(M) 0.20 LEVEL LOW
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING 50 M UPSTREAM OF DIRT PATH;
 1-60 GRASS IN STREAM BED (HEAVY):

402403 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4046 TIME TAKEN 11/16/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.553 (45 33' 10") LONG 103.160 (103 9' 36") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.30 DEPTH(M) 0.20 LEVEL LOW
 SURFACE GEOL UNIT TOH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING NEXT TO DRY PATCH ON BANK AND HEADING UPSTREAM;
1-60 GRASS AND MANURE IN STREAM BED;

402404 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4047 TIME TAKEN 11/16/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.555 (45 33'18") LONG 103.165 (103 9'54") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TMPA RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING AT DEAD FALLEN TREE IN STREAM;
1-60 GRASS AND TREES GROWING HEAVY IN STREAM;

402405 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4048 TIME TAKEN 11/16/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.554 (45 33'14") LONG 103.166 (103 9'57") CONTAMINANTS OTHER STREAM FLOW(M/SEC) 0.50
 WATER: WIDTH(M) 0.40 DEPTH(M) 0.30 LEVEL LOW
 SURFACE GEOL UNIT TMPA RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING AT CLEARING IN HEAVY TREE GROWTH ON BANK 40 M
UPSTREAM OF FORK;
1-60 GRASS GROWING IN STREAM;

402406 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.8 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4049 TIME TAKEN 12/16/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.541 (45 32'27") LONG 103.136 (103 8'9") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.40 DEPTH(M) 0.10 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING 40 M UPSTREAM FROM FORK;
1-60 GRASS IN STREAM BED;

402407 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4050 TIME TAKEN 12/16/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.537 (45 32'13") LONG 103.153 (103 9'10") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.40 DEPTH(M) 0.20 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING 50 M UPSTREAM OF BRIDGE;
1-60 GRASS IN STREAM AND COWS HAVE TRAMPLED AREA HEAVILY;

402408 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER CALM-CLEAR
PHASE E MAP NL1309 SITE 4051 TIME TAKEN 13/16/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.533 (45 31'58") LONG 103.160 (103 9'36") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 0.30 DEPTH(M) 0.20 LEVEL LOW
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-WH-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING 100 M UPSTREAM OF FORK;
1-60 STOCK IN AREA;

402409 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER CALM-CLEAR
PHASE E MAP NL1309 SITE 4052 TIME TAKEN 13/16/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.532 (45 31'55") LONG 103.158 (103 9'28") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 0.40 DEPTH(M) 0.20 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-WH ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING 100 M UPSTREAM OF FORK AND CONTINUING UPSTREAM;
1-60 CATTLE IN AREA;

402410 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER CALM-CLEAR
PHASE E MAP NL1309 SITE 4053 TIME TAKEN 14/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.524 (45 31'26") LONG 103.188 (103 11'16") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 0.40 DEPTH(M) 0.30 LEVEL LOW
SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-WH-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 05

REMARKS:

JOHN HELMS & REVA S.D. 57651;
1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING JUST BEFORE STREAM MEANDERS TOWARDS ROAD;
1-60 CATTLE HEAVY IN AREA;

402411 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
PHASE E MAP NL1309 SITE 4054 TIME TAKEN 14/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE

LOCATION: LAT 45.521 (45 31' 15") LONG 103.187 (103 11' 13")

CONTAMINANTS OTHER

STREAM FLOW (M/SEC) NONE

WATER: WIDTH (M) 0.50

DEPTH (M) 0.40 LEVEL LOW

SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125

BED MATERIAL SAND

SAMPLE: COLOR M-GY-WH ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING 40 M UPSTREAM FROM FORK;
1-60 CATTLE IN AREA;
1-78 JOHN HELMS & REVA S.D. 57651;

402412 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL

AIR TEMP (C) + 29.0

WEATHER CALM-PT CLDY

PHASE E MAP NL 1309 SITE 4055 TIME TAKEN 14/17/07/79

RELIEF GENTLE

VEGETATION GRASS-MODERATE

LOCATION: LAT 45.522 (45 31' 19") LONG 103.185 (103 11' 6")

CONTAMINANTS OTHER

STREAM FLOW (M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125

WATER: WIDTH (M)

DEPTH (M)

LEVEL DRY

BED MATERIAL SAND

SAMPLE: COLOR M-WH-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING 40 M UPSTREAM FROM FORK;
1-60 CATTLE IN AREA 1-78 JOHN HELMS & REVA S.D. 57651;

402414 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL

AIR TEMP (C) + 29.0

WEATHER CALM-PT CLDY

PHASE E MAP NL 1309 SITE 4056 TIME TAKEN 15/17/07/79

RELIEF GENTLE

VEGETATION GRASS-MODERATE

LOCATION: LAT 45.521 (45 31' 15") LONG 103.206 (103 12' 21")

CONTAMINANTS OTHER

STREAM FLOW (M/SEC) NONE

SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125

WATER: WIDTH (M) 0.40

DEPTH (M) 0.20

LEVEL LOW

BED MATERIAL SAND

SAMPLE: COLOR M-GY-WH ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING 40 M UPSTREAM OF MEANDER AND HEADING UPSTREAM;
1-60 CATTLE HEAVILY TRAMPLED AND MANURE IN STREAM;
1-78 JOHN HELMS & REVA S.D. 57651;

402415 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL

AIR TEMP (C) + 29.0

WEATHER LT WIND-PT CLDY

PHASE E MAP NL 1309 SITE 4057 TIME TAKEN 16/17/07/79

RELIEF GENTLE

VEGETATION GRASS-MODERATE

LOCATION: LAT 45.521 (45 31' 15") LONG 103.208 (103 12' 28")

CONTAMINANTS OTHER

STREAM FLOW (M/SEC) SJAG

SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125

WATER: WIDTH (M) 0.40

DEPTH (M) 0.20

LEVEL POOLS

BED MATERIAL CLAY

SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20 M INTERVAL BEGINNING AT PAIR OF TREES ON MEANDER EAST;
1-60 CATTLE TRAMPLED AND MANURE LADEN STREAM BED;

1-78 JOHN HELMS & REVA S.D. 57651:

402416 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4058 TIME TAKEN 16/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.524 (45 31' 26") LONG 103.209 (103 12' 32") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 0.40 DEPTH(M) 0.20 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER 20M INTERVAL BEGINNING AT LARGE TREE 40M DOWNSTREAM OF STOCK DAM;
 1-60 HEAVILY TRAMPLED BY CATTLE, MANURE AND STOCK DAM 40 M UPSTREAM;
 1-78 JOHN HELMS & REVA S.D. 57651:

402417 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4059 TIME TAKEN 17/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.527 (45 31' 37") LONG 103.202 (103 12' 7") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.30 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-WH ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT SLIGHT MEANDER NORTH AND CONTINUING UPSTREAM 1-60
 CATTLE IN AREA;
 1-78 JOHN HELMS & REVA S.D. 57651:

402418 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4060 TIME TAKEN 17/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.529 (45 31' 44") LONG 103.204 (103 12' 14") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 0.80 DEPTH(M) 0.50 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 10M UPSTREAM OF STOCK DAM (NOT ON MAP);
 1-60 CATTLE TRAMPLED STREAM BED AND GRASS IN STREAM;
 1-78 JOHN HELMS & REVA S.D. 57651:

402419 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4061 TIME TAKEN 18/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.538 (45 32' 16") LONG 103.215 (103 12' 54") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL 200M NORTH OF STOCK DAM;
 1-60 STOCK DAM DOWNSTREAM AND GRASS IN STREAM BED;
 1-78 GEORGE LERMENY & REVA S.D. 57651;

402420 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4062 TIME TAKEN 10/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.544 (45 32' 38") LONG 103.201 (103 12' 3") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.20 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:

BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER 20M INTERVAL 45M UPSTREAM FROM FORK;
 1-60 AGRICULTURE AND GRASS IN STREAM;
 1-78 GEORGE LERMENY & REVA, S.D. 57651;

402421 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4063 TIME TAKEN 10/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.546 (45 32' 45") LONG 103.208 (103 12' 28") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 35M UPSTREAM OF FORK;
 1-78 GEORGE LERMENY & REVA, S.D. 57651;

404211 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4977 TIME TAKEN 11/08/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.880 (45 52' 48") LONG 103.524 (103 31' 26") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.02
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.30 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 LADNER NE 7.5' TOPQ, SAMPLE TAKEN 25M UPSTREAM OF TRAIL OVER A 12M INTERVAL. STARTING AT THE INDENTED BANK;
 1-60 TRODDEN BY CATTLE;
 1-78 MERT CLARKSON & LUDLOW, S.D. 57755;

404213 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4975 TIME TAKEN 10/08/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.871 (45 52' 15") LONG 103.524 (103 31' 26") CONTAMINANTS MINING STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) 0.05 DEPTH(M) 0.02 LEVEL POOLS
 BED MATERIAL NONE SAMPLE: COLOR D-BK-BN ODOR NONE

--- -- -- -- -- SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 70

--- -- -- -- -- REMARKS:

1-38 LADNER NE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF HILL OVER A 15M INTERVAL, BEGAN AT THE FOOT OF HILL;
 1-60 ALMOST BROWN OVER, PUDDLES DISPERSED THROUGH OUT, TRODDEN BY CATTLE, LIGNITE MINE 1.3 KM SOUTH OF SITE;
 1-71 SAMPLE WAS MUCK-MUD-SAND;
 1-78 MERT CLARKSON & LUDLOW, S.D. 57755;

404214 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4974 TIME TAKEN 09/08/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.868 (45 52' 4") LONG 103.525 (103 31' 30") CONTAMINANTS MINING STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL NONE SAMPLE: COLOR D-BK-BN ODOR H2S

--- -- -- -- -- SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 80

--- -- -- -- -- REMARKS:

1-38 LADNER NE 7.5' TOPO, SAMPLE TAKEN 50M FROM TRAIL OVER AN 11M INTERVAL, BEGINNING AT THE BEND;
 1-60 LIGNITE MINE 1KM EAST, TRODDEN BY CATTLE AND ALMOST OVER GROWN;
 1-71 SOIL;
 1-78 MERT CLARKSON & LUDLOW, S.D. 57755;

404215 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4973 TIME TAKEN 09/08/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.869 (45 52' 8") LONG 103.527 (103 31' 37") CONTAMINANTS MINING STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) 0.33 DEPTH(M) 0.01 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR H2S

--- -- -- -- -- SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 80

--- -- -- -- -- REMARKS:

1-38 LADNER NE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF TRAIL OVER A 9M INTERVAL, STARTING AT THE TALL GRASS;
 1-60 TRODDEN BY CATTLE AND A LIGNITE MINE 1KM EAST OF SITE;
 1-78 MERT CLARKSON & LUDLOW, S.D. 57755;

404218 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCST
 PHASE E MAP NL1309 SITE 4970 TIME TAKEN 14/07/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.892 (45 53' 31") LONG 103.439 (103 26' 20") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL NONE SAMPLE: COLOR M-BN-BK ODOR NONE

--- -- -- -- -- SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 EAGLES NEST BUTTE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF TRAIL OVER A 8M INTERVAL, STARTING AT THE SAGE BRUSH CLUSTER:
1-60 SOIL, STREAM GROWN OVER BY GRASS:
1-71 SOIL:
1-78 DARYL FEIST & LUDLOW, S.D. 57755:

404219 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER -RAINY
PHASE E MAP NL1309 SITE 4968 TIME TAKEN 13/07/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.907(45 54'25") LONG 103.516(103 30'57") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-OR-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 LADNER NE 7.5 TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD OVER A 12M INTERVAL STARTING AT THE SECOND BATCH OF YELLOW FLOWERS:
1-60 OIL FIELD .3 KM AWAY AND HEAVILY TRODDEN BY CATTLE:

404220 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4967 TIME TAKEN 12/07/07/79 RELIEF MODERATE VEGETATION GRASS-DENSE
LOCATION: LAT 45.887(45 53'13") LONG 103.460(103 27'36") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPTR RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 EAGLE'S NEST BUTTE 7.5' TOPO, SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM STARTING 15M UPSTREAM FROM FENCE:
1-60 OIL WELL, HEAVILY TRODDEN BY CATTLE:
1-78 HAROLD FEIST & LUDLOW S.D. 57755:

404221 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4969 TIME TAKEN 11/07/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.824(45 49'26") LONG 103.489(103 29'20") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 0.50 DEPTH(M) 0.50 LEVEL LOW
SURFACE GEOL UNIT TPTR RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 60

REMARKS:

1-38 LUDLOW 7.5 TOPO, SAMPLE TAKE 100M FROM ROAD BEGINNING AT THE SAGE BRUSH CLUSTER OVER A 7M INTERVAL:
1-60 OIL FIELD 1KM NORTH:
1-78 HAROLD FEIST & LUDLOW, S.D. 57755:

404223 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 30.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4964 TIME TAKEN 10/07/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.902(45 54' 7") LONG 103.501(103 30' 3") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-BK-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 50

REMARKS:
 1-38 LADNER N.E. 7.5' TOPO, SAMPLE TAKEN 25M DOWNSTREAM OF ROAD OVER A 14M INTERVAL STARTING AT THE DIVIDE BETWEEN TWO HILLS;
 1-60 COMPLETELY OVERGROWN BY GRASS;

404224 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCST
 PHASE E MAP NL1309 SITE 4963 TIME TAKEN 09/07/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.887(45 53' 13") LONG 103.505(103 30' 18") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-BK-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LADNER NE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF FORK STARTING AT THE INDENTED HILL OVER A 12M INTERVAL;
 1-60 TRODDEN BY CATTLE, STREAM COMPLETELY GROWN OVER BY GRASS, SOIL;

404603 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 21.0 WEATHER LT WIND-OVERCST
 PHASE E MAP NL1309 SITE 4101 TIME TAKEN 10/06/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.416(45 24' 57") LONG 103.154(103 9' 14") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) 10.00 DEPTH(M) 1.00 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR OTHER

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 50M SW OF ROAD, OVER 24M INTERVAL, STARTING AT BEND IN STREAM WHICH IS CONCAVE TO THE
 WEST;
 1-60 CATTLE;
 1-77 ROTTENSMELL;
 1-78 MAURICE HAMILTON & SORUM, S.D. 57654;

404604 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 21.0 WEATHER LT WIND-OVERCST
 PHASE E MAP NL1309 SITE 4102 TIME TAKEN 10/06/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.378(45 22' 40") LONG 103.164(103 9' 50") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.10
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 0.10 DEPTH(M) 0.10 LEVEL LOW
 BED MATERIAL PEBBLE SAMPLE: COLOR D-BK-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 11 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 JB HILL 7.5' MAP, SAMPLE TAKEN 40M NORTH OF ROAD, OVER 25M INTERVAL STARTING AT EAST END OF WHERE THE STREAM BED WIDENS
OUT 50M SOUTH OF CLIFF:
1-60 CATTLE:

404605 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 22.5 WEATHER LT WIND-OVERCST
PHASE E MAP NL1309 SITE 4103 TIME TAKEN 11/06/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE
LOCATION: LAT 45.378 (45 22'40") LONG 103.161 (103 9'39") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TMA RESULTS REQ NO , RELEASED 800125 BED MATERIAL PEBBLE SAMPLE: COLOR M-GN-BN QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 11 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 JB HILL 7.5' MAP, SAMPLE TAKEN 60M EAST OF HIGHWAY, OVER 31M INTERVAL, STARTING AT NORTH BASE OF SMALL HILL WITH A
CLEARING ON TOP:
1-60 CATTLE:

404606 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 23.0 WEATHER LT WIND-OVERCST
PHASE E MAP NL1309 SITE 4104 TIME TAKEN 11/06/07/79 RELIEF MODERATE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.376 (45 22'33") LONG 103.164 (103 9'50") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TOH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GN-GY QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 JB HILL 7.5' MAP, SAMPLE TAKEN 100M WEST OF NEW HIGHWAY, 50 M EAST OF OLD HIGHWAY, OVER 30M INTERVAL, STARTING 20M SE OF 4
REINFORCING POSTS IN FENCE:
1-60 CATTLE:

404607 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 23.2 WEATHER -OVERCST
PHASE E MAP NL1309 SITE 4105 TIME TAKEN 12/06/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.344 (45 20'38") LONG 103.160 (103 9'36") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 0.50 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GN-BN QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 16 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 70M EAST OF HIGHWAY, OVER 33M INTERVAL, STARTING BESIDE SMALL TREE 7M EAST OF ROCK AND
DIRT MOUND:
1-60 CATTLE:

404608 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 23.0 WEATHER -OVERCST
PHASE E MAP NL1309 SITE 4106 TIME TAKEN 12/06/07/79 RELIEF MODERATE VEGETATION BRUSH-MODERATE

LOCATION: LAT 45.347 (45 20' 49") LONG 103.165 (103 9' 54")
 CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) STAG
 WATER: WIDTH (M) 0.50 DEPTH (M) 0.10 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 60M UPSTREAM OF FORK, OVER 20M INTERVAL STARTING 20M NE OF KNOB IN TAIL BESIDE MOUND BETWEEN THE STREAMS;
 1-60 CATTLE;

404609 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP (C) + 23.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4107 TIME TAKEN 12/06/07/79 RELIEF MODERATE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.346 (45 20' 45") LONG 103.165 (103 9' 54") CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC)
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 40M UPSTREAM FROM FORK, OVER 20M INTERVAL, STARTING 4M SOUTH OF SMALL DEAD TREE AND GOING UPSTREAM;
 1-60 CATTLE;

404610 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP (C) + 23.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4108 TIME TAKEN 13/06/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.317 (45 19' 1") LONG 103.164 (103 9' 50") CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC) STAG
 WATER: WIDTH (M) 0.50 DEPTH (M) 0.10 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 200M WEST OF ROAD, OVER 22M INTERVAL, STARTING 15M WEST OF THE SOUTH END OF DIRT LEDGE;
 1-60 CATTLE;

404695 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP (C) + 26.0 WEATHER LT WIND-PJ CLDY
 PHASE E MAP NL1309 SITE 4612 TIME TAKEN 12/09/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.908 (45 54' 28") LONG 103.324 (103 19' 26") CONTAMINANTS NONE STREAM FLOW (M/SEC)
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 TEEPE BUTTE 7.5' TOPO, SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM STARTING 30M DOWNSTREAM FROM FENCE;
 1-78 CARL PALCZEWSKI & LUDLOW S.D. 57755;

404696 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4613 TIME TAKEN 12/09/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.889 (45 53' 20") LONG 103.347 (103 20' 49") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) 0.50 DEPTH(M) 0.01 LEVEL POOLS
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:
 1-38 TEPEE BUTTE 7.5' TOPO, SAMPLE TAKEN IN A 12M INTERVAL STARTING AT FENCE, TAKEN MIDSTREAM;
 1-60 TOP SOIL;
 1-78 CARL PALCZEWSKI & LUDLOW, S.D. 57755;

404697 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4614 TIME TAKEN 12/09/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.887 (45 53' 13") LONG 103.338 (103 20' 16") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:
 1-38 TEPEE BUTTE 7.5' TOPO, SAMPLE TAKEN IN A 10M INTERVAL MIDSTREAM GOING UPSTREAM;
 1-60 TOP SOIL AND FINGERS (FORGOT SCOOP);
 1-78 CARL PALCZEWSKI & LUDLOW S.D. 57755;

404698 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4615 TIME TAKEN 13/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.886 (45 53' 9") LONG 103.339 (103 20' 20") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 30

REMARKS:
 1-38 TEPEE BUTTE 7.5' TOPO, SAMPLE TAKEN IN A 20M INTERVAL STARTING ABOVE ROAD (DIRT);
 1-60 TOP SOIL, FINGERS;
 1-78 CARL PALCZEWSKI & LUDLOW S.D. 57755;

404699 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4616 TIME TAKEN 13/09/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.882 (45 52' 55") LONG 103.339 (103 20' 20") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) 5.00 DEPTH(M) 0.01 LEVEL LOW
 BED MATERIAL SILT SAMPLE: COLOR D-OR-BN ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 TEPEE BUTTE 7.5' TOPO, SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM MIDSTREAM STARTING 25M UPSTREAM FROM LAKE;
 1-60 SOIL; FINGERS;
 1-78 CARL PALCZEWSKI & LUDLOW S.D. 57755;

404700 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4617 TIME TAKEN 13/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.880 (45 52'48") LONG 103.335 (103 20' 6") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 7.00 DEPTH(M) 0.01 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-QR-BN QDQR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 TEPEE BUTTE 7.5' TOPO, SAMPLE TAKEN IN A 10M INTERVAL STARTING 20M UPSTREAM FROM ROAD-UPSTREAM, MIDSTREAM;
 1-60 TOP SOIL;
 1-78 CARL PALCZEWSKI & LUDLOW S.D. 57755;

404701 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4618 TIME TAKEN 13/09/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.876 (45 52'33") LONG 103.335 (103 20' 6") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-QR-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 TEPEE BUTTE 7.5' TOPO, SAMPLE TAKEN MIDSTREAM IN A 45M INTERVAL UPSTREAM STARTING AT FENCE (TOOK WHERE POOLS HAD BEEN);
 1-60 TOP SOIL;
 1-78 CARL PALCZEWSKI & LUDLOW S.D. 57755;

404702 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4619 TIME TAKEN 17/09/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.840 (45 50'24") LONG 103.264 (103 15'50") CONTAMINANTS NONE STREAM FLOW(M/SEC) Q QJ
 WATER: WIDTH(M) 15.00 DEPTH(M) 0.90 LEVEL NORMAL
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BK-BN QDQR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 LUDLOW SE 7.5 TOPO, SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM STARTING AT BEND, TAKEN FROM S BANK;
 1-78 TERRY HAFNER & LUDLOW, S.D. 57755;

404704 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4620 TIME TAKEN 10/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.909 (45 54'32") LONG 103.278 (103 16'40") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 TEPEE BUTTE 7.5' TOPO, SAMPLE TAKEN IN A M INTERVAL MIDSTREAM STARTING ABOUT 30M W OF DIRT TRAIL WHERE TRAIL COMES CLOSE TO STREAM;
 1-60 TRODDEN BY CATTLE;
 1-78 LEONARD NYGAARD & SCRANTON N.D. & 58653;

404705 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4621 TIME TAKEN 11/11/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.910 (45 54' 36") LONG 103.264 (103 15' 50") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) 3.00 DEPTH(M) 0.02 LEVEL POOLS
 BED MATERIAL SILT SAMPLE: COLOR M-OR-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 TEPEE BUTTE 7.5' TOPO, SAMPLE TAKEN IN A 18M INTERVAL STARTING AT CURVE GOING UPSTREAM TAKEN MIDSTREAM;
 1-60 TOP SOIL;
 1-78 ALLEN GRIMES & GASCOYNE N.D. 58629;

404706 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4622 TIME TAKEN 11/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.910 (45 54' 36") LONG 103.263 (103 15' 46") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 TEPEE BUTTE 7.5' TOPO, SAMPLE TAKEN MIDSTREAM IN A 24M INTERVAL UPSTREAM STARTING 30M DOWNSTREAM FROM CURVE;
 1-60 TOP SOIL;
 1-78 ALLEN GRIMES & GASCOYNE N.D. 58629;

404707 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4623 TIME TAKEN 11/11/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.904 (45 54' 14") LONG 103.264 (103 15' 50") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 TEPEE BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL STARTING ABOUT 80M UPSTREAM FROM FENCE, TAKEN UPSTREAM, MIDSTREAM;

1-78 LEONARD NYGAARD & SCRANTON N.D. 58653:

404708 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4624 TIME TAKEN 11/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.901 (45 54' 3") LONG 103.263 (103 15' 46") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.01 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 TEPEE BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL, BEGINNING 50M UPSTREAM FROM LAKE:
 1-78 LEONARD NYGAARD & SCRANTON N.D. 58653:

404709 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4625 TIME TAKEN 11/11/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.901 (45 54' 3") LONG 103.261 (103 15' 39") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-WH-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 TEPEE BUTTE 7.5 TOPO, SAMPLE TAKEN MIDSTREAM IN A 20M INTERVAL STARTING 25M UPSTREAM FROM LAKE:
 1-78 LEONARD NYGAARD & SCRANTON, N.D. 58653:

404710 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4626 TIME TAKEN 12/11/07/79 RELIEF LOW VEGETATION GRASS-DENSE
 LOCATION: LAT 45.844 (45 50' 38") LONG 103.253 (103 15' 10") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-OR-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LUDLOW SE 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL STARTING 25M UPSTREAM FROM ROAD, GOING UPSTRAM (MIDSTREAM):
 1-78 ROBERT G. ANDERSON & GASCOYNE N.E. 58629:

404711 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4627 TIME TAKEN 14/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.827 (45 52' 37") LONG 103.260 (103 15' 36") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GN-BN QDQR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 TEEPE BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM STARTING 25M UPSTREAM FROM ROAD, TAKEN MIDSTREAM;
1-78 LEONARD NYGAARDS & SCRANTON N.D. 58653;

404712 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4628 TIME TAKEN 14/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.883(45 52' 58") LONG 103.253(103 15' 10") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 TEEPE BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 20M INTERVAL MIDSTREAM, UPSTREAM;
1-60 TOPSOIL;
1-78 LEONARD NYGAARD & SCRANTON N.D. 58653;

404713 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4629 TIME TAKEN 15/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.868(45 52' 4") LONG 103.259(103 15' 32") CONTAMINANTS NONE STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 3.00 DEPTH(M) 0.25 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR H2S

SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LUDLOW SE, SAMPLE TAKEN IN A 10M INTERVAL STARTING 20M UPSTREAM FROM CONFLUENCE TAKEN MIDSTREAM;
1-78 LEONARD NYGAARD & SCRANTON N.D. 58653;

404714 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4630 TIME TAKEN 15/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.867(45 52' 1") LONG 103.261(103 15' 39") CONTAMINANTS NONE STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 5.00 DEPTH(M) 0.01 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR H2S

SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LUDLOW SE 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 10M INTERVAL BEGINING 20M BELOW DAM;
1-78 LEONARD NYGAARD & SCRANTON N.D. 58653;

404715 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4631 TIME TAKEN 16/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.862(45 51' 43") LONG 103.255(103 15' 18") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 4.00 DEPTH(M) 0.33 LEVEL NORMAL
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 LUDLOW SE, 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM, TAKEN FROM E BANK;
 1-60 TOPSOIL;
 1-78 ROBERT ANDERSON & GASCOYNE N.S., 58629;

404716 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4632 TIME TAKEN 10/12/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.854 (45 51' 14") LONG 103.294 (103 17' 38") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.01 LEVEL NORMAL
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 80

REMARKS:

1-38 LUDLOW SE 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL STARTING AT FENCE, TAKEN MIDSTREAM, UPSTREAM;
 1-60 TOPSOIL;
 1-78 LEONARD NYGAARD & SCRANTON N.D., 58653;

404717 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4633 TIME TAKEN 10/12/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.852 (45 51' 7") LONG 103.293 (103 17' 34") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.01 LEVEL NORMAL
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 LUDLOW SE 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM STARTING AT FENCE, TAKEN FROM E BANK;
 1-60 TOPSOIL;
 1-78 LEONARD NYGAARD & SCRANTON N.D., 58653;

404718 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4634 TIME TAKEN 10/12/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.850 (45 51' 0") LONG 103.292 (103 17' 31") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LUDLOW SE 7 1/2' TOPO, SAMPLE TAKEN IN A 10M INTERVAL STARTING UPSTREAM FROM FENCE, MIDSTREAM;
 1-60 TOPSOIL, CAR GREASE;
 1-78 TERRY HAFNER & LUDLOW S.D., 57755;

404719 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4635 TIME TAKEN 10/12/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.847(45 50'49") LONG 103.291(103 17'27") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-YL-BN ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LUDLOW SE 7 1/2 TOPO, SAMPLE TAKEN IN 16M INTERVAL STARTING AT BEND;
 1-60 TOP SOIL
 1-78 TERRY HAFNER & LUDLOW S.D. 57755;

404720 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4636 TIME TAKEN 11/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.853(45 51'10") LONG 103.265(103 15'54") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.02 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BK ODOR H2S
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:
 1-38 LUDLOW SE 7 1/2 TOPO, SAMPLE TAKEN IN A 12M INTERVAL STARTING AT CURVE, TAKEN FROM WEST BANK;
 1-60 TOP SOIL, TRODDEN BY CATTLE;
 1-78 ROBERT B. ANDERSON & GASCOYNE N.D. 58629;

404721 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4637 TIME TAKEN 11/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.857(45 51'25") LONG 103.253(103 15'10") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR H2S
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:
 1-38 LUDLOW SE 7 1/2 TOPO, SAMPLE TAKEN MIDSTREAM, IN A 12M INTERVAL UPSTREAM STARTING 25M UP FROM BRIDGE;
 1-60 TOP SOIL, TRODDEN BY CATTLE;
 1-78 ROBERT B. ANDERSON & GASCOYNE N.D. 58629;

404722 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4638 TIME TAKEN 12/12/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.884(45 53' 2") LONG 103.374(103 22'26") CONTAMINANTS OTHER STREAM FLOW(M/SEC) 0.02
 WATER: WIDTH(M) 5.00 DEPTH(M) 0.35 LEVEL NORMAL
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR H2S
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 TEEPE BUTTE, 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM FROM WEST BANK:
 1-60 TOPSOIL:
 1-78 MABEL HANSON & LUDLOW S.D. 57755:

404723 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4639 TIME TAKEN 14/12/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.714 (45 42'50") LONG 103.611 (103 36'39") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) LEVEL DRY
 WATER: WIDTH(M) DEPTH(M)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR U-YL-BN QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 20M INTERVAL MIDSTREAM, DOWNSTREAM STARTING 50M DOWNSTREAM OF OIL ROAD:
 1-60 OIL FIELD:
 1-78 NIEMI, & BUFFALO, S.D. 57720:

404724 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4640 TIME TAKEN 16/12/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.705 (45 42'18") LONG 103.616 (103 36'57") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) LEVEL DRY
 WATER: WIDTH(M) DEPTH(M)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-WH-BN QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 18M INTERVAL STARTING AT ANTOLOPE CARCUS:
 1-60 OIL FIELD:
 1-78 NIEMI, & BUFFALO, SD. 57720:

404725 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4641 TIME TAKEN 16/12/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.705 (45 42'18") LONG 103.611 (103 36'39") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) LEVEL DRY
 WATER: WIDTH(M) DEPTH(M)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-YL-BN QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 16M INTERVAL STARTING AT BEND, UPSTREAM:
 1-60 OIL FIELD, TOPSOIL:
 1-78 NIEMI & BUFFALO SD. 57720:

404726 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4642 TIME TAKEN 16/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE

LOCATION: LAT 45.714 (45 42' 50") LONG 103.603 (103 36' 10")
 CONTAMINANTS OIL FIELD
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:
 1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 14M INTERVAL MIDSTREAM, UPSTREAM, STARTING BELOW OIL WELL:
 1-60 OILFIELD, TOPSOIL;
 1-78 NIEMI, & BUFFALO S.D. 57720;

404727 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4643 TIME TAKEN 17/12/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.705 (45 42' 18") LONG 103.602 (103 36' 7") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 10

REMARKS:
 1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 10M INTERVAL STARTING 25M UPSTREAM FROM ROAD:
 1-60 OILFIELD;
 1-7E NIEMI, & BUFFALO S.D. 57720;

404728 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4644 TIME TAKEN 17/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.708 (45 42' 28") LONG 103.564 (103 33' 50") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:
 BUFFALO S.D. 57720;
 1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 15M INTERVAL DOWNSTREAM STARTING 20M BELOW OIL ROAD (NOT ON MAP).
 1-60 OILFIELD, GALVANIZED PIPE UNDER ROAD;
 1-78 TED SEPPELA;

404729 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4645 TIME TAKEN 17/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.675 (45 40' 30") LONG 103.567 (103 34' 1") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 14M INTERVAL UPSTREAM STARTING W OF TELEPHONE POLE:

1-60 TOPSOIL:

1-78 NILO TILUS & BUFFALO S.D. 57720:

404730 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4646 TIME TAKEN 09/13/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.703 (45 42'10") LONG 103.659 (103 39'32") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 80

REMARKS:

1-38 LAHTI BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 10M INTERVAL STARTING BETWEEN DAM AND CONFLUENCE, TAKEN MIDSTREAM:

1-60 TOPSOIL:

1-78 DON MARTIAN, & BUFFALO, S.D. 57720:

404731 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4647 TIME TAKEN 10/13/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.693 (45 41'34") LONG 103.656 (103 39'21") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LAHTI BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL STARTING 30M UPSTREAM OF CONFLUENCE:

1-60 TOPSOIL, OIL WELL:

1-78 DON MARTIAN & BUFFALO, S.D. 57720:

404732 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4648 TIME TAKEN 11/13/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-SPARSE
 LOCATION: LAT 45.828 (45 49'40") LONG 103.512 (103 30'43") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LADNER SE 7 1/2' TOPO SAMPLE TAKEN IN A 10M INTERVAL MIDSTREAM, UPSTREAM STARTING 25M ABOVE BIG CLUMP OF DECIDUOUS TREES:

1-60 TOPSOIL:

404733 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER LT WIND-PJ CLDY
 PHASE E MAP NL1309 SITE 4649 TIME TAKEN 12/13/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.807 (45 48'25") LONG 103.494 (103 29'38") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.33 LEVEL NORMAL

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 LUDLOW S.D. 7 1/2' TOPO, SAMPLE TAKEN IN A 10M INTERVAL STARTING AT CURVE - 3 CURVES UPSTREAM FROM 4 BABY DECIDUOUS TREES, TAKEN FROM S BANK:

1-60 TOPSOIL:

404734 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY PHASE E MAP NL1309 SITE 4650 TIME TAKEN 13/13/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-SPARSE LOCATION: LAT 45.827(45 49'37") LONG 103.477(103 28'37") CONTAMINANTS OTHER STREAM FLOW(M/SEC) WATER: WIDTH(M) DEPTH(M) LEVEL DRY BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LUDLOW 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL STARTING 20M UPSTREAM OF CONFLUENCE, TAKEN MIDSTREAM, UPSTREAM:

1-60 TOPSOIL:

404735 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY PHASE E MAP NL1309 SITE 4652 TIME TAKEN 12/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE LOCATION: LAT 45.862(45 51'43") LONG 103.271(103 16'15") CONTAMINANTS OTHER SAMPLE: COLOR - -CL ODOR NONE SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1490 DISSOLVED OXYGEN(PPM) 11.1 WATER TEMP(C) + 14.1 VISIBILITY(M) CLEAR PH 8.8 LO-ION PAPER TOTAL ALKALINITY(PPM) 600 P ALKALINITY(PPM) 58 M ALKALINITY(PPM) 588 APPEARANCE CLEAR DISCHARGE(L/M) 10.00 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION PLASTIC METERS FROM HEAD 100 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT DEPTH TO PROD HORIZON(M) 180 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER WELL DEPTH(M) 180 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 TEEPE BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM HYDRANT ABOUT AN 1/8 MILE S OF WELL CLOSE TO HOUSE N 50M N, TAKEN FROM STOCK TANK;

1-60 SUBMERSEABLE PUMP;

1-78 LEONARD NYGAARD & SCRATON N.D. 58653;

404736 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY PHASE E MAP NL1309 SITE 4663 TIME TAKEN 14/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE LOCATION: LAT 45.849(45 50'56") LONG 103.257(103 15'25") CONTAMINANTS OTHER SAMPLE: COLOR - -CL ODOR NONE SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	1390	DISSOLVED OXYGEN(PPM)	10.4
WATER TEMP(C) + 14.4	VISIBILITY(M)	CLEAR	PH 8.5	LO-ION PAPER
TOTAL ALKALINITY(PPM) 620	P ALKALINITY(PPM)	68	M ALKALINITY(PPM)	625
APPEARANCE CLEAR	DISCHARGE(L/M)	10.00		
PRODUCING HORIZON TPFL	CONFIDENCE	POSSIBLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING UNKNOWN	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 15	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 100	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE	
WELL DEPTH(M) 100	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION GEOL. INFERENCE	

REMARKS:

1-38 LUDLOW SE 7 1/2' TOPO, SAMPLE TAKEN FROM HYDRANT 15M E OF WELL;
 1-60 SUBMERSEABLE PUMP, RUBBER HOSE;
 1-78 ROBERT ANDERSON & GASCOYNE N.D. 58629;

404737	TYPE WELL WATER	REPLICATE	SAMPLER JJP	AIR TEMP(C) + 30.0	WEATHER LT WIND-PT CLDY
PHASE E	MAP NL 1309	SITE 4662	TIME TAKEN 15/17/07/79	RELIEF GENTLE	VEGETATION GRASS-DENSE
LOCATION: LAT 45.842(45 50'31")			LONG 103.307(103 18'25")	CONTAMINANTS OTHER	
SURFACE GEOL UNIT TPFL			RESULTS REQ YES, RELEASED 800125	SAMPLE: COLOR - -CL QDQR NONE	

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	1470	DISSOLVED OXYGEN(PPM)	10.5
WATER TEMP(C) + 15.7	VISIBILITY(M)	CLEAR	PH 8.8	LO-ION PAPER
TOTAL ALKALINITY(PPM) 679	P ALKALINITY(PPM)	92	M ALKALINITY(PPM)	668
APPEARANCE CLEAR	DISCHARGE(L/M)	5.00		
PRODUCING HORIZON TPFL	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING STEEL	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 25	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSE/STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M) 18	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION OWNER	
WELL DEPTH(M) 18	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION OWNER	

REMARKS:

1-38 LUDLOW SE 7 1/2' TOPO, SAMPLE TAKEN FROM HYDRANT ON E SIDE OF WHITE BACK BUILDING 25M S OF WELL (WINDMILL);
 1-60 SUBMERSEABLE PUMP;
 1-78 SACK & LUDLOW S.D. 57755;

404738	TYPE WELL WATER	REPLICATE	SAMPLER JJP	AIR TEMP(C) + 30.0	WEATHER LT WIND-PJ CLDY
PHASE E	MAP NL 1309	SITE 4661	TIME TAKEN 15/17/07/79	RELIEF GENTLE	VEGETATION DECIDUOUS-SPARSE
LOCATION: LAT 45.881(45 52'51")			LONG 103.334(103 20' 2")	CONTAMINANTS OTHER	
SURFACE GEOL UNIT TPFL			RESULTS REQ YES, RELEASED 800125	SAMPLE: COLOR U-OR-BN ODOR NONE	

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	1500	DISSOLVED OXYGEN(PPM)	9.6
WATER TEMP(C) + 14.9	VISIBILITY(M)	CLEAR	PH 8.8	LO-ION PAPER
TOTAL ALKALINITY(PPM) 640	P ALKALINITY(PPM)	95	M ALKALINITY(PPM)	648
APPEARANCE MURKY	DISCHARGE(L/M)	30.00		
PRODUCING HORIZON TPFL	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	GALVANIZED	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	15	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	120	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	120	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 TEEPE BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM HYDRANT ON W SIDE OF HOUSE ABOUT 5M AWAY, WELL LOCATED 15M N OF HOUSE;
 1-60 SUBMERSEABLE PUMP;
 1-78 CARL PALCZEWSKI & LUDLOW S.D. 57755;

404739	TYPE	WELL WATER	REPLICATE	SAMPLER	JJP	AIR TEMP(C)	+ 30.0	WEATHER	LT WIND-PT CLDY
	PHASE	E	MAP NL1309	SITE	4660	TIME TAKEN	15/17/07/79	RELIEF	GENTLE
	LOCATION: LAT	45.879(45 52'44")	LONG	103.333(103 19'58")	CONTAMINANTS OTHER				
	SURFACE GEOL UNIT	TPFL	RESULTS REQ	YES	RELEASED	800125	SAMPLE: COLOR U-OR-CL ODOR NONE		

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	2130	DISSOLVED OXYGEN(PPM)	7.9
WATER TEMP(C)	+ 16.2	VISIBILITY(M)	CLEAR	PH	8.7 LO-ION PAPER
TOTAL ALKALINITY(PPM)	642	P ALKALINITY(PPM)	62	M ALKALINITY(PPM)	682
APPEARANCE	CLEAR	DISCHARGE(L/M)	5.00	SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	TPFL	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	PLASTIC	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD		WITH RESPECT TO PRESSURE TANK	AFTER	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	120	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	120	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 TEEPE BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM HYDRANT RIGHT NEXT TO WELL IN GALVANIZED BARN;
 1-60 SUBMERSEABLE PUMP;
 1-78 CARL PALCZEWSKI & LUDLOW, S.D. 57755;

404740	TYPE	WELL WATER	REPLICATE	SAMPLER	JJP	AIR TEMP(C)	+ 31.0	WEATHER	LT WIND-PT CLDY
	PHASE	E	MAP NL1309	SITE	4659	TIME TAKEN	17/17/07/79	RELIEF	GENTLE
	LOCATION: LAT	45.694(45 41'38")	LONG	103.547(103 32'49")	CONTAMINANTS OTHER				
	SURFACE GEOL UNIT	TPFL	RESULTS REQ	YES	RELEASED	800125	SAMPLE: COLOR - -CL ODOR NONE		

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	3660	DISSOLVED OXYGEN(PPM)	6.8
WATER TEMP(C)	+ 23.1	VISIBILITY(M)	CLEAR	PH	8.2 LO-ION PAPER
TOTAL ALKALINITY(PPM)	882	P ALKALINITY(PPM)	38	M ALKALINITY(PPM)	800
APPEARANCE	CLEAR	DISCHARGE(L/M)	3.00	SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	TPFL	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	PLASTIC	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	50	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	54	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	54	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM KITCHEN SINK IN HOUSE 50M W OF WELL WHICH IS 8M S OF WINDMILL;
 1-60 SUBMERSABLE PUMP;
 1-78 RON PIEKKOLA & BOX 337 & BUFFALO 57720;

404741 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4658 TIME TAKEN 18/17/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-SPARSE
 LOCATION: LAT 45.722(45 43'19") LONG 103.556(103 33'21") CONTAMINANTS OTHER
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR U-OR-CL QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3870 DISSOLVED OXYGEN(PPH) 9.5
 WATER TEMP(C) + 14.1 VISIBILITY(M) CLEAR PH 8.5 LO-ION PAPER
 TOTAL ALKALINITY(PPH) 740 P ALKALINITY(PPH) 62 M ALKALINITY(PPH) 764
 APPEARANCE CLEAR DISCHARGE(L/M) 3.00
 PRODUCING HORIZON KGMH CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING UNKNOWN PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) 54 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 54 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM HYDRANT 20M NE OF WELL BY FENCE;
 1-60 SUBMERSEABLE PUMP, OIL WELLS, MINES, CEMENT CASING ON TOP;
 1-78 TED SEPPELA & BUFFALO S.D. 57720;

404742 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4651 TIME TAKEN 19/07/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.709(45 42'32") LONG 103.589(103 35'20") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 1M INTERVAL MIDSTREAM HEADING UPSTREAM STARTING BELOW TELEPHONE POLE;
 1-60 OIL FIELD, TOPSOIL;

404743 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4657 TIME TAKEN 17/18/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-SPARSE
 LOCATION: LAT 45.710(45 42'36") LONG 103.549(103 32'56") CONTAMINANTS OIL FIELD
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR - -CL QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3540 DISSOLVED OXYGEN(PPH) 8.0
 WATER TEMP(C) + 26.2 VISIBILITY(M) CLEAR PH 8.3 LO-ION PAPER
 TOTAL ALKALINITY(PPH) 920 P ALKALINITY(PPH) 62 M ALKALINITY(PPH) 922
 APPEARANCE CLEAR DISCHARGE(L/M) 10.00
 PRODUCING HORIZON KGMH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	WIND	CASING	STEEL	PIPE COMPOSITION	STEEL
METERS FROM HEAD	20	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	150	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	150	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM FACUTE 5M E FROM HOUSE, WELL IS 20M N OF HOUSE ON HILL UNDER WINDMILL;
 1-60 NEAR OIL FIELD;
 1-78 ROBERT JOHNSON & BUFFALO S.D. 57720;

404744	TYPE WELL WATER	REPLICATE	SAMPLER JJP	AIR TEMP(C)	+ 26.0	WEATHER	LT WIND-PT CLDY
	PHASE E	MAP NL1309	SITE 4656	TIME TAKEN	18/18/07/79	RELIEF	GENTLE
	LOCATION: LAT	45.706 (45 42' 21")	LONG	103.569 (103 34' 8")	CONTAMINANTS	OIL FIELD	SAMPLE: COLOR - -CL - ODOR NONE
	SURFACE GEOL UNIT	KGMH	RESULTS REQ	YES	RELEASED	800125	

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	7250	DISSOLVED OXYGEN(PPM)	10.3
WATER TEMP(C)	+ 12.5	VISIBILITY(M)	CLEAR	PH	7.6 LO-ION PAPER
TOTAL ALKALINITY(PPM)	1759	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	1720
APPEARANCE	CLEAR	DISCHARGE(L/M)	10.00	SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	KGMH	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	GALVANIZED	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	RARE
DEPTH TO PROD HORIZON(M)	38	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	38	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM PIPE LEADING INTO FEEDING TANK 1M AWAY FROM WELL-UNDER WINDMILL;
 1-60 OIL FIELD;
 1-78 TED SEPPALA, & BUFFALO S.D. 57720;

404745	TYPE WELL WATER	REPLICATE	SAMPLER JJP	AIR TEMP(C)	+ 26.0	WEATHER	LT WIND-PT CLDY
	PHASE E	MAP NL1309	SITE 4654	TIME TAKEN	19/18/07/79	RELIEF	GENTLE
	LOCATION: LAT	45.687 (45 41' 13")	LONG	103.590 (103 35' 24")	CONTAMINANTS	OTHER	SAMPLE: COLOR - -CL - ODOR NONE
	SURFACE GEOL UNIT	TPFL	RESULTS REQ	YES	RELEASED	800125	

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	3520	DISSOLVED OXYGEN(PPM)	6.9
WATER TEMP(C)	+ 22.7	VISIBILITY(M)	CLEAR	PH	8.5 LO-ION PAPER
TOTAL ALKALINITY(PPM)	960	P ALKALINITY(PPM)	65	M ALKALINITY(PPM)	1020
APPEARANCE	CLEAR	DISCHARGE(L/M)	3.00	SOURCE GEOL. INFERENCE	
PRODUCING HORIZON	TPFL	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	5	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	90	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	90	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 MCKENZIE BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM FACUTE ON S SIDE OF HOUSE, WELL IS LOCATED ABOUT 5M SOUTH OF HOUSE;
 1-60 OIL WELLS, SUBMERSEABLE PUMP;
 1-78 RASMUS BROTHERS & BUFFALO S.D 57720;

404747 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 25.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4653 TIME TAKEN 10/18/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.683(45 40'58") LONG 103.572(103 34'19") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 SAMPLE: COLOR U-OR-CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1370 DISSOLVED OXYGEN(PPH) 8.2
 WATER TEMP(C) + 17.2 VISIBILITY(M) CLEAR PH 8.9 LO-ION PAPER
 TOTAL ALKALINITY(PPH) 489 P ALKALINITY(PPH) 76 M ALKALINITY(PPH) 550
 APPEARANCE MURKY DISCHARGE(L/M) 6.00 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 60 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) 180 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH(M) 180 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 MCKENZIE BUTTE SAMPLE TAKEN FROM HYDRANT ON E SIDE OF HOUSE ABOUT 5M WELL LOCATED 60M SE OF HOUSE;
 1-60 SUBMERSABLE PUMP;
 1-78 NILLO TILUS & BUFFALO S.D. 57720;

404748 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4664 TIME TAKEN 11/19/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.894(45 53'38") LONG 103.535(103 32' 6") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-QR-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 40

REMARKS:

1-38 LADNER NE 7 1/2' TOPO, SAMPLE TAKEN IN A 12 M INTERVAL STARTING 25M DOWNSTREAM OF ROAD AT BEND, MIDSTREAM, DOWNSTREAM;
 1-60 OIL FIELD;

404749 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4665 TIME TAKEN 11/19/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.888(45 53'16") LONG 103.548(103 32'52") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 0.33 DEPTH(M) 0.24 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-OR-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 LADNER NE 7 1/2' TOPO, SAMPLE TAKEN IN A 12 M INTERVAL UPSTREAM STARTING 10M ABOVE CONFLUENCE, TAKEN MIDSTREAM;

1-60 OIL WELLS IN AREA:

404750 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4666 TIME TAKEN 11/19/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.887 (45 53' 13") LONG 103.544 (103 32' 38") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.05 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-OR-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 LADNER NE 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL STARTING 20 M DOWNSTREAM FROM CONFLUENCE;
 1-60 OIL WELLS IN AREA:

404751 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4667 TIME TAKEN 12/19/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.880 (45 52' 48") LONG 103.546 (103 32' 45") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.25 DEPTH(M) 0.20 LEVEL NORMAL
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-QR-BN QDQR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 LADNER NE 7 1/2' TOPO, SAMPLE TAKEN IN A 12 M INTERVAL UPSTREAM STARTING AT BEND TAKEN FROM NEAR N BANK;
 1-60 OIL WELLS IN AREA:

404752 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4668 TIME TAKEN 12/19/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.880 (45 52' 48") LONG 103.567 (103 34' 1") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LADNER NE 7 1/2 TOPO, SAMPLE TAKEN IN A 10 M INTERVAL 10 M UPSTREAM FROM CONFLUENCE;
 1-60 TOPSOIL:

404753 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4669 TIME TAKEN 13/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.882 (45 52' 55") LONG 103.596 (103 35' 45") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LADNER NE 7 1/2' TOPO, SAMPLE TAKEN IN A 12 M INTERVAL UPSTREAM STARTING 10 M ABOVE CONFLUENCE:

404754 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4670 TIME TAKEN 13/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.883(45 52'58") LONG 103.595(103 35'42") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 LADNER NE 7 1/2 TOPO, SAMPLE TAKEN IN A 10M INTERVAL UPSTREAM STARTING 10M UPSTREAM OF CONFLUENCES 1-60 TOP SOIL:

404755 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4655 TIME TAKEN 14/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.907(45 54'25") LONG 103.445(103 26'42") CONTAMINANTS OIL FIELD SAMPLE: COLOR U-OR-CL ODOR NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1620 DISSOLVED OXYGEN(PPM) 15.0
 WATER TEMP(C) + 14.5 VISIBILITY(M) CLEAR PH 7.4 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 574 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 556
 APPEARANCE CLEAR DISCHARGE(L/M) 2.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY INFREQUENT
 DEPTH TO PROD HORIZON(M) 15 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 15 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM PIPE INTO FEEDING TANK 1M FROM WELL, LOCATED IN FENCED IN AREA:

1-60 OIL WELLS IN AREA:

1-78 DOWNING, & LUDLOW, S.D 57755:

3-20 CONCRETE:

404756 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4671 TIME TAKEN 14/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.906(45 54'21") LONG 103.445(103 26'42") CONTAMINANTS OTHER SAMPLE: COLOR - -CL ODOR NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3450 DISSOLVED OXYGEN(PPM) 10.2
 WATER TEMP(C) + 18.7 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 694 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 700
 APPEARANCE CLEAR DISCHARGE(L/M) 2.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	OTHER	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	5	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSEHOLD	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	15	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH(M)	15	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM TAP IN KITCHEN SINK, WELL IS LOCATED E SIDE OF HOUSE;
 1-60 GALVANIZED PIPE;
 1-78 DOWNING & LUDLOW S.D. 57755;
 3-18 BOARED;
 3-20 CONCRETE.

404757 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4672 TIME TAKEN 15/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.905(45 54'18") LONG 103.447(103 26'49") CONTAMINANTS OTHER SAMPLE: COLOR -CL ODOR NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	4220	DISSOLVED OXYGEN(PPM)	12.9
WATER TEMP(C) + 11.3	VISIBILITY(M)	CLEAR	PH 7.5 LO-ION PAPER	
TOTAL ALKALINITY(PPM) 750	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	750
APPEARANCE CLEAR	DISCHARGE(L/M)	2.00		
PRODUCING HORIZON TPFL	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION	STEEL
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE STOCK	PUMPING FREQUENCY	INFREQUENT
DEPTH TO PROD HORIZON(M)	15	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH(M)	15	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM GALVANIZED PIPE LEADING INTO FEED TANK RIGHT NEXT TO WELL S OF HOUSE;
 1-60 GALVINED PIPE, OIL WELLS IN AREA;
 1-78 DOWNING & LUDLOW S.D. 57755;
 3-20 CONCRETE.

404758 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4673 TIME TAKEN 15/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.905(45 54'18") LONG 103.446(103 26'45") CONTAMINANTS OTHER SAMPLE: COLOR -CL ODOR NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	5510	DISSOLVED OXYGEN(PPM)	12.1
WATER TEMP(C) + 12.3	VISIBILITY(M)	CLEAR	PH 7.9 LO-ION PAPER	
TOTAL ALKALINITY(PPM) 734	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	740
APPEARANCE CLEAR	DISCHARGE(L/M)	20.00		
PRODUCING HORIZON KGMH	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION	STEEL
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE STOCK	PUMPING FREQUENCY	INFREQUENT
DEPTH TO PROD HORIZON(M)	15	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER	

WELL DEPTH(M) 15 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 EAGLES NEST BUTTE, 7 1/2' TOPO, SAMPLE TAKEN FROM PIPE LEADING INTO FEED TANK NEXT TO WELL, WELL LOCATED NEAR WELL HOUSE S OF HOUSE;
 1-60 OIL WELLS IN AREA;
 1-78 DOWNING & LUDLOW S.D. 57755;

404759 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4674 TIME TAKEN 15/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.905 (45 54' 18") LONG 103.444 (103 26' 38") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1180 DISSOLVED OXYGEN (PPH) 12.7
 WATER TEMP (C) + 10.0 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 482 P ALKALINITY (PPH) <5 M ALKALINITY (PPH) 480
 APPEARANCE CLEAR DISCHARGE (L/M) 2.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION STEEL
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY INFREQUENT
 DEPTH TO PROD HORIZON(M) 15 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 15 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM PIPE LEADING INTO FEED TANK NEXT TO WELL WHICH IS SE OF HOUSE NEAR VEGETABLE PLOT;
 1-60 OIL WELLS IN AREA;
 1-78 DOWNING & LUDLOW S.D. 57755;
 3-20 CONCRETE;

404760 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4675 TIME TAKEN 16/19/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.907 (45 54' 25") LONG 103.441 (103 26' 27") CONTAMINANTS OIL FIELD STREAM FLOW (M/SEC)
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BU-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2' TOPO SAMPLE TAKEN IN A 12 M INTERVAL DOWNSTREAM STARTING 25 M DOWNSTREAM FROM ROAD;
 1-60 OIL WELLS IN AREA;
 1-78 DOWNING & LUDLOW S.D. 57755;

404761 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4676 TIME TAKEN 17/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.907 (45 54' 25") LONG 103.412 (103 24' 43") CONTAMINANTS OIL FIELD STREAM FLOW (M/SEC)
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY

SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 12' M INTERVAL STARTING 10M UPSTREAM FROM CONFLUENCE;
1-60 OIL WELL IN SURROUNDING AREA;
1-78 MILO DOWNING, & LUDLOW S.D. 57755;

404762 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP (C) + 31.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4677 TIME TAKEN 17/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.911 (45 54' 39") LONG 103.405 (103 24' 18") CONTAMINANTS OIL FIELD STREAM FLOW (M/SEC) 0.01

SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND WATER: WIDTH (M) 3.00 DEPTH (M) 0.30 LEVEL NORMAL SAMPLE: COLOR M-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 EAGLES NEST BUTTE, 7 1/2' TOPO, SAMPLE TAKEN FROM N BANK GOING UPSTREAM BEGINNING AT LARGE CURVE;
1-60 OIL WELL, TOPSOIL;
1-78 MILO DOWNING & LUDLOW S.D. 57755;

404763 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP (C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4678 TIME TAKEN 18/19/07/79 RELIEF LOW VEGETATION DECIDUOUS-SPARSE
LOCATION: LAT 45.905 (45 54' 18") LONG 103.375 (103 22' 30") CONTAMINANTS NONE
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1490 DISSOLVED OXYGEN (PPH) 9.0
WATER TEMP (C) + 19.3 VISIBILITY (M) CLEAR PH 8.9 LO-ION PAPER
TOTAL ALKALINITY (PPH) 602 P ALKALINITY (PPH) 80 M ALKALINITY (PPH) 630
APPEARANCE CLEAR DISCHARGE (L/M) 20.00
PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION UNKNOWN
METERS FROM HEAD 7 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M) 120 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH (M) 120 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM FACUTE ON E SIDE OF HOUSE, WELL IS LOCATED 5M E OF HOUSE;
1-60 SUBMERSABLE PUMP;
1-78 HANSON & LUDLOW S.D. 57755;
3-20 CONCRETE;

404764 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP (C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4679 TIME TAKEN 19/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.880 (45 52' 48") LONG 103.436 (103 26' 9") CONTAMINANTS NONE STREAM FLOW (M/SEC) STAG

SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.30 LEVEL POOLS
 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 14 M INTERVAL UPSTREAM FROM W BANK, STARTING AT LARGE POOL;
 1-78 FEIST & LUDLOW S.D. 57755;

404766 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4680 TIME TAKEN 10/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.879(45 52'44") LONG 103.433(103 25'58") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.30 LEVEL NORMAL
 BED MATERIAL SAND SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 30

REMARKS:
 1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 20 M INTERVAL FROM CLOSE TO W BANK, UPSTREAM, STARTING AT CURVE;
 1-78 FEIST & LUDLOW S.D. 57755;

404767 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4681 TIME TAKEN 11/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.894(45 53'38") LONG 103.563(103 33'46") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL POOLS
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:
 1-38 LADNER NE 7 1/2' TOPO, SAMPLE TAKEN IN A 12 M INTERVAL UPSTREAM FROM CLOSE TO W BANK;
 1-60 OIL WELLS IN AREA;

404768 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4682 TIME TAKEN 11/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.894(45 53'38") LONG 103.565(103 33'54") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LADNER NE 7 1/2' TOPO, SAMPLE TAKEN IN A 12 M INTERVAL STARTING 25 M UPSTREAM FROM CONFLUENCE;
 1-60 OIL WELLS IN AREA;

404769 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4683 TIME TAKEN 12/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.888(45 53'16") LONG 103.473(103 28'22") CONTAMINANTS OIL FIELD
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3640 DISSOLVED OXYGEN(PPM) 10.7
 WATER TEMP(C) + 20.4 VISIBILITY(M) CLEAR PH 6.8 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 820 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 810
 APPEARANCE CLEAR DISCHARGE(L/M) 40.00
 PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 60 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) 26 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 26 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM FACUTE ON E SIDE OF HOUSE, WELL LOCATED ABOUT 60M EAST OF HOUSE;
 1-60 SUBMERSEABLE PUMP, OIL WELLS IN AREA;
 1-78 FEIST & LUDLOW S.D. 57755;

404770 TYPE SPRING WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4684 TIME TAKEN 13/20/07/79 RELIEF GENTLE VEGETATION CONIFER-MODERATE
 LOCATION: LAT 45.889(45 53'20") LONG 103.476(103 28'33") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 730 DISSOLVED OXYGEN(PPM) 10.3
 WATER TEMP(C) + 17.4 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 390 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 380
 APPEARANCE CLEAR DISCHARGE(L/M) 5.00
 PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE POWER CLASSIFICATION CASING PIPE COMPOSITION
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK USE PUMPING FREQUENCY
 DEPTH TO PROD HORIZON(M) 31 CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 EAGLES NEST BUTTE 7.5 TOPO, SAMPLE TAKEN FROM PIPE LEADING INTO STOCK TANK ABOUT 100M E OF SPRING;
 1-60 GALVINIZED PIPE;
 1-78 CLIFTON FEIST & LUDLOW, S.D. 57755;

404771 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4685 TIME TAKEN 13/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.884(45 53' 2") LONG 103.456(103 27'21") CONTAMINANTS OIL FIELD
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) DISSOLVED OXYGEN(PPM) 9.3

WATER TEMP(C) + 78.0 VISIBILITY(M) CLEAR PH 8.6 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 680 P ALKALINITY(PPM) 88 M ALKALINITY(PPM) 680
 APPEARANCE CLEAR DISCHARGE(L/M) 40.00
 PRODUCING HORIZON KG/H CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE
 DEPTH TO PROD HORIZON(M) 114 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 114 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:
 1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM PIPE INTO FEED TANK RIGHT NEXT TO WELL UNDER WINDMILL;
 1-60 OIL WELLS IN SURROUNDING AREA;
 1-78 CLIFTON FEIST & LUDLOW S.D. 57755;
 3-20 CEMENT;

404772 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4686 TIME TAKEN 16/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.893(45 53'34") LONG 103.386(103 23' 9") CONTAMINANTS OTHER SAMPLE: COLOR -CL ODOR NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 750 DISSOLVED OXYGEN(PPM) 7.9
 WATER TEMP(C) + 24.8 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 380 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 390
 APPEARANCE CLEAR DISCHARGE(L/M) 50.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) 18 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 18 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:
 1-38 EAGLES NEST BUTTE 7 1/2' TOPO SAMPLE TAKEN FROM FAUCET ON E SIDE OF HOUSE WELL BEHIND HOUSE;
 1-60 OIL WELLS IN AREA;
 1-78 HARRY S JOHNSON & LUDLOW S.D. 57755;
 3-20 CEMENT;

404773 TYPE WELL WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 31.0 WEATHER LT WIND-PJ CLDY
 PHASE E MAP NL1309 SITE 4687 TIME TAKEN 16/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.893(45 53'34") LONG 103.387(103 23' 13") CONTAMINANTS OTHER SAMPLE: COLOR -CL ODOR NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 310 DISSOLVED OXYGEN(PPM) 11.4
 WATER TEMP(C) + 14.7 VISIBILITY(M) CLEAR PH 7.4 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 510 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 500
 APPEARANCE CLEAR DISCHARGE(L/M) 50.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING OTHER	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD	20	WITH RESPECT TO PRESSURE TANK	AFTER	USE STOCK	PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M)	18	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER
WELL DEPTH(M)	18	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM HYDRANT NEAR PIG PEN, WELL LOCATED E OF HOUSE;
 1-78 HARRY JOHNSON & LUDLOW S.D. 57755;
 3-20 HOOD;

404774	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER JJP	AIR TEMP(C) + 30.0	WEATHER	LT WIND-PT CLDY
	PHASE E	MAP NL1309	SITE 4688	TIME TAKEN 10/21/07/79	RELIEF GENTLE	VEGETATION	GRASS-MODERATE
	LOCATION: LAT	45.910 (45 54'36")	LONG	103.348 (103 20'52")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)
					WATER: WIDTH(M)		DEPTH(M)
	SURFACE GEOL UNIT	TPFL	RESULTS REQ NO	RELEASED 800125	BED MATERIAL	SILT	SAMPLE: COLOR L-YL-BN
							LEVEL DRY QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 TEPEE BUTTE 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 16 M INTERVAL UPSTREAM STARTING 10 M ABOVE TRAIL;

404775	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER JJP	AIR TEMP(C) + 30.0	WEATHER	LT WIND-CLEAR
	PHASE E	MAP NL1309	SITE 4689	TIME TAKEN 10/21/07/79	RELIEF GENTLE	VEGETATION	GRASS-MODERATE
	LOCATION: LAT	45.908 (45 54'28")	LONG	103.354 (103 21'14")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)
					WATER: WIDTH(M)	0.50	DEPTH(M) 0.20
	SURFACE GEOL UNIT	TPFL	RESULTS REQ NO	RELEASED 800125	BED MATERIAL	SILT	SAMPLE: COLOR M-OR-BN
							LEVEL POOLS QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 TEPEE BUTTE 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 12 M INTERVAL UPSTREAM STARTING 10 M ABOVE TRAIL;

404776	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER JJP	AIR TEMP(C) + 30.0	WEATHER	LT WIND-CLEAR
	PHASE E	MAP NL1309	SITE 4690	TIME TAKEN 10/21/07/79	RELIEF GENTLE	VEGETATION	GRASS-MODERATE
	LOCATION: LAT	45.907 (45 54'25")	LONG	103.357 (103 21'25")	CONTAMINANTS	OTHER	STREAM FLOW(M/SEC)
					WATER: WIDTH(M)		DEPTH(M)
	SURFACE GEOL UNIT	TPFL	RESULTS REQ NO	RELEASED 800125	BED MATERIAL	SILT	SAMPLE: COLOR L-YL-BN
							LEVEL DRY QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 TEPEE BUTTE 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 16 M INTERVAL DOWNSTREAM STARTING 10 M DOWNSTREAM OF DIRT TRAIL;
 1-60 ABANDONED HOUSE IN AREA, TOPSOIL;

404777	TYPE	SPRING WATER	REPLICATE	SAMPLER JJP	AIR TEMP(C) + 30.0	WEATHER	LT WIND-CLEAR
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PHASE E MAP NL1309 SITE 4691 TIME TAKEN 12/21/07/79 RELIEF GENTLE VEGETATION CONIFER-MODERATE
 LOCATION: LAT 45.894 (45 53' 30") LONG 103.488 (103 29' 16") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 660 DISSOLVED OXYGEN (PPM) 12.9
 WATER TEMP (C) + 13.8 VISIBILITY (M) CLEAR PH 6.5 LO-ION PAPER
 TOTAL ALKALINITY (PPM) 372 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 364
 APPEARANCE CLEAR DISCHARGE (L/M) 3.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2, SAMPLE TAKEN FROM GALVANIZED PIPE INTO WOODEN TANK:

404778 TYPE SPRING WATER REPLICATE SAMPLER JJP AIR TEMP (C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4692 TIME TAKEN 12/21/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.903 (45 54' 10") LONG 103.479 (103 28' 44") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 760 DISSOLVED OXYGEN (PPM) 13.1
 WATER TEMP (C) + 11.7 VISIBILITY (M) CLEAR PH 7.0 LO-ION PAPER
 TOTAL ALKALINITY (PPM) 417 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 425
 APPEARANCE CLEAR DISCHARGE (L/M) 2.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 EAGLES NEST BUTTE, SAMPLE COLLECTED FROM PIPE EMPTYING INTO STOCK TANK ON WESTERN SIDE OF CANYON:
 1-60 GALVANIZED PIPE:

404779 TYPE SPRING WATER REPLICATE SAMPLER JJP AIR TEMP (C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4693 TIME TAKEN 13/21/07/79 RELIEF GENTLE VEGETATION CONIFER-MODERATE
 LOCATION: LAT 45.884 (45 53' 2") LONG 103.500 (103 30' 0") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 750 DISSOLVED OXYGEN (PPM) 13.3
 WATER TEMP (C) + 13.5 VISIBILITY (M) CLEAR PH 7.5 LO-ION PAPER
 TOTAL ALKALINITY (PPM) 520 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 518
 APPEARANCE CLEAR DISCHARGE (L/M) 3.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ARTESIAN	CASING	NONE	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	1	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	1	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 LADNERNE 7 1/2' TOPO, SAMPLE TAKEN FROM PIPE INTO FEEDING TANK;
 1-60 GALVANIZED PIPE, CONCRETE SISTERN;

404780 TYPE SPRING WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER CALM-RAINY
 PHASE E MAP NL1309 SITE 4694 TIME TAKEN 14/23/07/79 RELIEF GENTLE VEGETATION CONIFER/DECIDUOUS-MODERATE
 LOCATION: LAT 45.880 (45 52'48") LONG 103.479 (103 28'44") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR - -CL QDQR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHO5/CM)	1420	DISSOLVED OXYGEN(PPM)	10.4
WATER TEMP(C)	+ 13.9	VISIBILITY(M)	CLEAR	PH	6.6 LO-ION PAPER
TOTAL ALKALINITY(PPM)	600	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	565
APPEARANCE	CLEAR	DISCHARGE(L/M)	3.00	SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	TPFL	CONFIDENCE	POSSIBLE		

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ARTESIAN	CASING	NONE	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	1	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	1	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN FROM PLASTIC PIPE RUNNING INTO FEED TANK;
 1-60 PLASTIC PIPE;
 1-78 FEIST & LUDLOW S.D. 57755;

404781 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4695 TIME TAKEN 15/23/07/79 RELIEF MODERATE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.866 (45 51'57") LONG 103.470 (103 28'12") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPTR RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR Q-BN-BK QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	8	ORGANIC MATERIAL(%)	10
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REMARKS:

1-38 LUDLOW 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM STARTING 23 M UPSTREAM FROM FORK, GOING UPSTREAM;

404782 TYPE SPRING WATER REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER LT WIND-QUERCST
 PHASE E MAP NL1309 SITE 4696 TIME TAKEN 15/23/07/79 RELIEF GENTLE VEGETATION CONIFER/DECIDUOUS-DENSE
 LOCATION: LAT 45.856 (45 51'21") LONG 103.477 (103 28'37") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 7550 DISSOLVED OXYGEN(PPH) 8.1
 WATER TEMP(C) + 17.6 VISIBILITY(M) CLEAR PH 6.7 LO-ION PAPER
 TOTAL ALKALINITY(PPH) 660 P ALKALINITY(PPH) 25 H ALKALINITY(PPH) 678
 APPEARANCE CLEAR DISCHARGE(L/M) 2.00
 PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION PLASTIC
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) 1 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH(M) 1 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 LUDLOW 7 1/2' TOPO, SAMPLE TAKEN FROM PLASTIC PIPE TO FEEDING TANK;
 1-60 PLASTIC PIPE;
 1-78 FEIST & LUDLOW S.D. 57755;

404783 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4697 TIME TAKEN 16/23/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.855(45 51'18") LONG 103.471(103 28'15") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPTR RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LUDLOW 7 1/2' TOPO, SAMPLE TAKEN MIDSTREAM IN A 12 M INTERVAL STARTING BELOW CURVE;
 1-60 TRODDEN BY CATTLE;
 1-78 FEIST, & LUDLOW S.D. 57755;

404784 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4698 TIME TAKEN 11/24/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.839(45 50'20") LONG 103.457(103 27'25") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-YL-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 40

REMARKS:

1-38 LUDLOW 7 1/2' TOPO, SAMPLE TAKEN IN A 20 M INTERVAL UPSTREAM STARTING AT CURVE;
 1-60 TOP SOIL, URANIUM MINES IN AREA;

404785 TYPE WELL WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4700 TIME TAKEN 14/01/08/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.835(45 50' 6") LONG 103.377(103 22'37") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR - -CL QDQR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1640 DISSOLVED OXYGEN(PPH) 8.2

WATER TEMP(C) + 19.0 VISIBILITY(M) CLEAR PA 8.8 LO-TON PAPER
 TOTAL ALKALINITY(PPM) 639 P ALKALINITY(PPM) 90 M ALKALINITY(PPM) 580
 APPEARANCE CLEAR DISCHARGE(L/M) 20.00
 PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING UNKNOWN PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) 73 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH(M) 74 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 LUDLOW 7 1/2' TOPO, SAMPLE TAKEN FROM FACUTE IN BAR 20M. E OF WELL LOCATED BEHIND (W) OF BAR;
 1-60 SUBMERSABLE PUMP, OLD U MINING IN AREA;
 1-78 LUDLOW STORE & LUDLOW, S.D. 57755;

404786 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4699 TIME TAKEN 12/01/08/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.610 (45 36'36") LONG 103.211 (103 12'39") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 11 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 BATTLESHIP ROCK, SAMPLE TAKEN IN A 22M INTERVAL, BEGINNING 20M DOWNSTREAM OF WOODEN SHACK;
 1-60 ALKALI EVAPORITES;
 1-78 MRS. JOHN R. OLSON & LUDLOW S.D. 57755;

404791 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 23.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4501 TIME TAKEN 10/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.878 (45 52'40") LONG 103.654 (103 39'14") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 TABLE MT. 7.5' TOPO, SAMPLE TAKEN UPSTREAM FROM LARGE JUNKPILE, ALONGSIDE TWO LARGE DECIDUOUS TREES AT BEGINNING OF DEEPER
 CHANNEL, OVER 20M INTERVAL;
 1-60 CATTLE GRAZING, JUNK METAL PILES DOWNSTREAM, ONLY POSSIBLE SOURCE;
 1-78 STERN RANCH & BUFFALO, S.D. 57720;

404792 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 23.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4502 TIME TAKEN 10/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.878 (45 52'40") LONG 103.652 (103 39' 2") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 25

REMARKS:

1-38 TABLE MT. 7.5' TOPO, SAMPLE TAKEN 2M DOWNSTREAM FROM SMALL CONFLUENCE NEXT TO LARGE ROCK OUTCROPS, OVER 20M INTERVAL IN CENTER OF CHANNEL;
1-60 CATTLE GRAZING;

404793 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 24.0 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4503 TIME TAKEN 10/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.870 (45 52' 12") LONG 103.633 (103 37' 58") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 0.10 DEPTH(M) 0.05 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 80

REMARKS:

1-38 LADNER 7.5' TOPO, SAMPLE TAKEN BEGINNING 3M DOWNSTREAM FROM GROUP OF DEAD TREES, OVER 20M INTERVAL DOWNSTREAM, IN CENTER OF CHANNEL;
1-60 HEAVY DECAYING VEGETATION, CATTLE GRAZING;
1-78 STERN RANCH & BUFFALO, S.D. 57720;

404794 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 24.5 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4504 TIME TAKEN 11/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.862 (45 51' 43") LONG 103.628 (103 37' 40") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 0.50 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 75

REMARKS:

1-38 LADNER 7.5' TOPO, SAMPLE TAKEN FROM NOTICEABLE 6X2M POND 110M SOUTH OF SECTION FENCE, SAMPLE TAKEN IN AND DOWNSTREAM OF POND OVER 10M INTERVAL (FROM BANKS OF POND, NOT CENTER);
1-60 HORSE AND CATTLE GRAZING;

404795 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 24.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4505 TIME TAKEN 12/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.870 (45 52' 12") LONG 103.674 (103 40' 26") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL NORMAL
SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 60

REMARKS:

1-38 LADNER 7.5' TOPO, SAMPLE TAKEN AT FIRST PROMINANT MEANDER, OVER 15M INTERVAL, ALONG EITHER BANK;
1-60 HEAVY VEGETATION DECAYING, CATTLE GRAZING, ALKALAI SALTS OBVIOUS NEARBY;

404796 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4506 TIME TAKEN 12/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.873(45 52'22") LONG 103.680(103 40'48") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 40

REMARKS:
 1-38 LADNER 7.5' TOPO, SAMPLE TAKEN NEXT TO SMALL MEANDER CLIFF OPPOSITE LARGE ONE, OVER 20M INTERVAL DOWNSTREAM IN CENTER OF CHANNEL
 1-60 CATTLE GRAZING, ALKALAI SALTS OBVIOUS NEARBY;
 1-78 STERN RANCH & BUFFALO, S.D. 57720;

404797 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 24.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4507 TIME TAKEN 12/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.873(45 52'22") LONG 103.678(103 40'40") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 55

REMARKS:
 1-38 LADNER 7.5' TOPO, SAMPLE TAKEN APPROX. 90M N OF SMALL HILL, IN TIGHT S-MEANDER, OVER 25M INTERVAL UPSTREAM, BEGINNING AT SOUTH END OF SHORT STRAIGHT SECTION;
 1-60 CATTLE & HEAVY DECAYING VEGETATION;

404798 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 27.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4508 TIME TAKEN 13/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.860(45 51'36") LONG 103.679(103 40'44") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LADNER 7.5' TOPO, SAMPLE TAKEN WHERE STREAM MEANDERS CLOSEST TO WINDMILL, APPROX. 150M NE OF IT, OVER 20M INTERVAL IN CENTER OF CHANNEL;
 1-60 CATTLE GRAZING, & PIECES OF RUSTING SHEET METAL AND BARBED WIRE JUST UPSTREAM;
 1-78 STERNS RANCH & BUFFALO, S.D. 57720;

404799 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 27.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4509 TIME TAKEN 13/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.856(45 51'21") LONG 103.693(103 41'34") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 WATER: WIDTH(M) 2.00 DEPTH(M) 0.30 LEVEL NORMAL
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 45

REMARKS:

I-38 LADNER 7.5' TOPO, SAMPLE TAKEN APPROX. 65M DOWNSTREAM FROM DAM, BEGINNING AT BARBED WIRE FENCE, WORKING UPSTREAM OVER A 15M INTERVAL, SAMPLES TAKEN FROM EAST BANK;
I-60 CATTLE GRAZING, APPARENT OILY FILM ON WATER;

404800 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4510 TIME TAKEN 14/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.849 (45 50' 56") LONG 103.668 (103 40' 4") CONTAMINANTS OTHER STREAM FLOW(M/SEC) LEVEL DRY
WATER: WIDTH(M) DEPTH(M) SAMPLE: COLOR M-BN-BN ODOR NONE
SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

REMARKS:

I-38 LADNER 7.5' TOPO, SAMPLE TAKEN APPROX. 150 UPSTREAM FROM TREES, PARALLEL TO ROAD, OVER A 25M INTERVAL, IN CENTER OF CHANNEL;
I-60 HEAVILY OVERGROWN WITH GRASS, CATTLE GRAZING;

404801 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4511 TIME TAKEN 14/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.858 (45 51' 28") LONG 103.671 (103 40' 15") CONTAMINANTS NONE STREAM FLOW(M/SEC) LEVEL DRY
WATER: WIDTH(M) DEPTH(M) SAMPLE: COLOR M-BN-BN ODOR NONE
SURFACE GEOL UNIT KGMH RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 05

REMARKS:

I-38 LADNER 7.5' TOPO, SAMPLE TAKEN IN BARREN SECTION OF MINIATURE CANYON JUST EAST OF LARGE HILL ON TOPO, 10 GRABS TAKEN IN NONLINEAR FASHION;

404802 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 24.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4512 TIME TAKEN 15/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.849 (45 50' 56") LONG 103.653 (103 39' 10") CONTAMINANTS NONE STREAM FLOW(M/SEC) LEVEL DRY
WATER: WIDTH(M) DEPTH(M) SAMPLE: COLOR M-BN-BN ODOR NONE
SURFACE GEOL UNIT TPTR RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SAND

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 15

REMARKS:

I-38 LADNER 7.5' TOPO, SAMPLE TAKEN 10M SOUTH OF SECTION FENCE, OVER 20M INTERVAL DOWNSTREAM IN CENTER OF CHANNEL;
I-78 STERN RANCH & BUFFALO, S.D. 57720;

404803 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 28.5 WEATHER CALM-CLEAR
PHASE E MAP NL1309 SITE 4513 TIME TAKEN 16/09/07/79 RELIEF MODERATE VEGETATION BRUSH-MODERATE

LOCATION: LAT 45.904 (45 54' 14") LONG 103.682 (103 40' 35")

CONTAMINANTS OTHER

STREAM FLOW (M/SEC) STAG

WATER: WIDTH (M) 0.40

DEPTH (M) 0.10

LEVEL POOLS

SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125

BED MATERIAL SILT

SAMPLE: COLOR M-GY-BN

ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 10

ORGANIC MATERIAL (%) 20

REMARKS:

1-38 TABLE MT. 7.5' TOPO, SAMPLE TAKEN BEGINNING AT BASE OF MEANDER CLIFF, AND WORKING UPSTREAM OVER A 20M INTERVAL, IN CENTER OF CHANNEL;
1-60 CATTLE GRAZING;

404804 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH

AIR TEMP (C) + 28.0

WEATHER LT WIND-PT CLDY

PHASE E MAP NL1309 SITE 4514 TIME TAKEN 16/09/07/79

RELIEF MODERATE

VEGETATION BRUSH-MODERATE

LOCATION: LAT 45.904 (45 54' 14") LONG 103.679 (103 40' 44")

CONTAMINANTS OTHER

STREAM FLOW (M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125

BED MATERIAL CLAY

DEPTH (M)

LEVEL DRY

SAMPLE: COLOR M-BN-BN

ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 10

ORGANIC MATERIAL (%) 05

REMARKS:

1-38 TABLE MT. 7.5' TOPO, SAMPLE TAKE IMMEDIATELY UPSTREAM OF WHERE CATTLE PATH CROSSES STREAM, OVER 20M INTERVAL IN MIDDLE OF BED;
1-60 CATTLE;

404805 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH

AIR TEMP (C) + 28.5

WEATHER LT WIND-CLEAR

PHASE E MAP NL1309 SITE 4515 TIME TAKEN 16/09/07/79

RELIEF MODERATE

VEGETATION BRUSH-MODERATE

LOCATION: LAT 45.909 (45 54' 32") LONG 103.668 (103 40' 4")

CONTAMINANTS OTHER

STREAM FLOW (M/SEC) NONE

SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125

BED MATERIAL SILT

DEPTH (M) 0.10

LEVEL LOW

SAMPLE: COLOR M-GY-BK

ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET

SAMPLE TREATMENT NONE

NUMBER OF GRABS 10

ORGANIC MATERIAL (%) 05

REMARKS:

1-38 TABLE MT. 7.5' TOPO, SAMPLE TAKEN BEGINNING AT LARGE BUSHES, AND WORKING UPSTREAM OVER A 20M INTERVAL IN CENTER OF CHANNEL;
1-60 HORSE GRAZING;

404806 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH

AIR TEMP (C) + 28.5

WEATHER LT WIND-CLEAR

PHASE E MAP NL1309 SITE 4516 TIME TAKEN 14/11/07/79

RELIEF MODERATE

VEGETATION BRUSH-MODERATE

LOCATION: LAT 45.899 (45 53' 56") LONG 103.644 (103 38' 38")

CONTAMINANTS OTHER

STREAM FLOW (M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125

BED MATERIAL SILT

DEPTH (M)

LEVEL DRY

SAMPLE: COLOR M-GY-BN

ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY

SAMPLE TREATMENT NONE

NUMBER OF GRABS 10

ORGANIC MATERIAL (%) 60

REMARKS:

1-38 TABLE MT. 7.5' TOPO, SAMPLE TAKEN BEGINNING 5M UPSTREAM FROM SMALL EAST MEANDER CLIFF, JUST UPSTREAM FROM SMALL POND, OVER

25M INTERVAL IN CENTER OF CHANNEL;
1-60 VERY HEAVY VEGETATION (DECAYING), AND LOTS OF CATTLE;

404808 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4517 TIME TAKEN 14/11/07/79 RELIEF MODERATE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.900 (45 54' 0") LONG 103.631 (103 37' 51") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 25

REMARKS:

1-38 TABLE MT 7.5' TOPO, SAMPLE TAKEN BEGINNING 10M UPSTREAM FROM LAST BUSH ON LEFT BANK, OVER 10M INTERVAL IN MIDDLE OF CHANNEL;
1-60 CATTLE, SOIL, AND HEAVY VEGETATION

404809 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4518 TIME TAKEN 17/11/07/79 RELIEF MODERATE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.823 (45 49' 22") LONG 103.630 (103 37' 48") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 35

REMARKS:

1-38 LADNER 7.5' TOPO, SAMPLE TAKEN 100M UPSTREAM FROM CONFLUENCE, OVER 20M INTERVAL, IN CENTER OF CHANNEL;
1-60 CATTLE, ALKALAI SALTS;

404810 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.5 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4519 TIME TAKEN 17/11/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.823 (45 49' 22") LONG 103.631 (103 37' 51") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 35

REMARKS:

1-38 LADNER 7.5' TOPO, SAMPLE TAKEN 100M UPSTREAM FROM CONFLUENCE, OVER 25M INTERVAL UPSTREAM IN CENTER OF CHANNEL;
1-60 CATTLE, ALKALAI SALTS;

404811 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4520 TIME TAKEN 09/12/07/79 RELIEF LOW VEGETATION -MODERATE
LOCATION: LAT 45.723 (45 43' 22") LONG 103.456 (103 27' 21") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ YES , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN 10M UPSTREAM FROM WHERE STREAM CROSSES ONTO UN-TILLED LAND OVER 20M INTERVAL UPSTREAM
(CHANNEL VERY POORLY DEFINED);
1-55 STREAM DRAINS LARGE CULTIVATED FIELD, POSSIBLY FERTILIZED;
1-60 AGRICULTURE, UNCERTAIN WHAT TYPE;
1-78 CAVE HILLS CATTLE CO. & BOX 27 & BUFFALO, S.D. 57720;

404812 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.5 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4521 TIME TAKEN 15/12/07/79 RELIEF LOW VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.721(45 43' 15") LONG 103.435(103 26' 6") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 40

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN AT NEARLY-CUTOFF MEANDER JUST NORTH OF SMALL HILL, OVER 20M INTERVAL UPSTREAM IN MIDDLE
OF CHANNEL;
1-60 AGRICULTURE AND HEAVY VEGETATION IN CHANNEL;
1-78 CAVE HILL CATTLE CO. & BOX 27 & BUFFALO, S.D. 57720;

404813 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.5 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4522 TIME TAKEN 16/12/07/79 RELIEF LOW VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.716(45 42' 57") LONG 103.431(103 25' 51") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 40

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN 20M UPSTREAM FROM ROAD, OVER 20M INTERVAL UPSTREAM IN CENTER OF OVERGROWN CHANNEL;
1-60 CATTLE GRAZING, SOIL, HEAVY VEGETATION;
1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404814 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.5 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4523 TIME TAKEN 15/12/07/79 RELIEF LOW VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.719(45 43' 8") LONG 103.434(103 26' 2") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 25

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKE 50M UPSTREAM FROM CONFLUENCE, JUST SOUTH OF SMALL HILL, OVER 15M INTERVAL UPSTREAM;
1-60 CATTLE, HEAVY VEGETATION, & AGRICULTURE;

1-78 CAVE HILL CATTLE CO. & BOX 27 & BUFFALO, S.D. 57720

404815 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 28.5 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4524 TIME TAKEN 17/12/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.703 (45 42' 10") LONG 103.465 (103 27' 54") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN 15M UPSTREAM FROM FENCE, BEGINNING JUST NE OF LITTLE BUTTE WITH CACTII ON TOP, OVER 20M INTERVAL IN CENTER OF CHANNEL;
 1-60 GRAZING OF CATTLE, ANTELOPE, FOX, . . . SOIL VERY HARD AND DRY;
 1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404816 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4525 TIME TAKEN 13/12/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.685 (45 41' 6") LONG 103.436 (103 26' 9") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 35

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN 30M UPSTREAM FROM CONFLUENCE, OVER 20M INTERVAL UPSTREAM IN CENTER OF CHANNEL;
 1-60 CATTLE GRAZING;
 1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404817 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 28.5 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4526 TIME TAKEN 14/12/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.680 (45 40' 48") LONG 103.445 (103 26' 42") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN UPSTREAM OVER A 20M INTERVAL;
 1-60 CATTLE AND VARIOUS BITS OF RUSTING METAL;
 1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404818 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.5 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4527 TIME TAKEN 12/12/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.677 (45 40' 37") LONG 103.434 (103 26' 2") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY

SURFACE GEOL UNIT KGMM RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN 150 M UPSTREAM FROM RESERVOIR, OVER A 25 M INTERVAL, IN THE CENTER OF THE CHANNEL;
1-60 CATTLE;
1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404819 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4528 TIME TAKEN 15/12/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.678 (45 40'40") LONG 103.424 (103 25'26") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMM RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN LEVEL DRY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN 50 M UPSTREAM FROM CONFLUENCE, OVER 20 M INTERVAL UPSTREAM IN DRY POOL HOLES;
1-60 CATTLE;
1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404820 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.5 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4529 TIME TAKEN 14/12/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.710 (45 42'36") LONG 103.422 (103 25'19") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMM RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY LEVEL DRY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 25

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN BEGINNING 3 M DOWNSTREAM FROM SECTION FENCE, OVER 30 M INTERVAL DOWNSTREAM IN MIDDLE OF CHANNEL;
1-60 CATTLE, OVERGROWTH, OIL RIG NEARBY UPSTREAM;
1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404821 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 26.5 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4530 TIME TAKEN 12/17/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.690 (45 41'24") LONG 103.461 (103 27'39") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT KGMM RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY LEVEL LOW ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN APPROX. 100 M UPSTREAM FROM CONFLUENCE, BEGINNING AT LARGE RUST-BROWN BOULDER ON EAST BANK, AND OVER A 20 M INTERVAL UPSTREAM IN CENTER OF CHANNEL;

1-60 CATTLE;
1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404822 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4531 TIME TAKEN 12/17/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.690 (45 41'24") LONG 103.460 (103 27'36") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 0.30 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE
SEDIMENT INFORMATION:
SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN EXACTLY 35 M UPSTREAM FROM CONFLUENCE, OVER 20 M INTERVAL UPSTREAM IN CENTER OF CHANNEL;
1-60 CATTLE, PIECE OF BARBED WIRE FOUND IN A POOL;
1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404823 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4532 TIME TAKEN 13/17/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.683 (45 40'58") LONG 103.452 (103 27' 7") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 0.30 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE
SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN BEGINNING 5 M DOWNSTREAM FROM CONFLUENCE WITH SMALLER STREAM FROM NW, OVER 20 M INTERVAL
DOWNSTREAM IN CENTER OF CHANNEL;
1-60 CATTLE GRAZING;
1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404824 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4533 TIME TAKEN 13/17/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.682 (45 40'55") LONG 103.460 (103 27'36") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE
SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN AT SHARPEST BEND IN CHANNEL, BEGINNING AT SMALL SHADE TREES, OVER 20 M INTERVAL UPSTREAM
IN CENTER OF CHANNEL;
1-60 SHEEP, LOTS!
1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404826 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4534 TIME TAKEN 14/17/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE

LOCATION: LAT 45.683 (45 40' 58") LONG 103.463 (103 27' 46") CONTAMINANTS OTHER STREAM FLOW (M/SEC)
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 30

REMARKS:
 1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN 50 M UPSTREAM FROM CONFLUENCE, UNDER MEANDER CLIFF, OVER 20 M INTERVAL UPSTREAM IN CENTER OF CHANNEL.
 1-60 SHEEP GRAZING;
 1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720:

404827 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP (C) + 26.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4535 TIME TAKEN 14/17/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.687 (45 41' 13") LONG 103.466 (103 27' 57") CONTAMINANTS OTHER STREAM FLOW (M/SEC)
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 30

REMARKS:
 1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN IN ONLY VISIBLE CHANNEL, JUST UPSTREAM OF LOWER FLOOD PLAIN, OVER 20 M INTERVAL UPSTREAM IN CENTER OF CHANNEL.
 1-60 SHEEP & CATTLE;
 1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720:

404828 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP (C) + 26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4536 TIME TAKEN 15/17/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.687 (45 41' 13") LONG 103.477 (103 28' 37") CONTAMINANTS OTHER STREAM FLOW (M/SEC)
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR U-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 05

REMARKS:
 1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN IN STEEP GULLY WHERE TOWPATH CROSSES CHANNEL, OVER 20 M INTERVAL DOWNSTREAM IN CENTER OF CHANNEL.
 1-60 CATTLE AND SHEEP GRAZING;
 1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720:

404829 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP (C) + 26.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4537 TIME TAKEN 15/17/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.691 (45 41' 27") LONG 103.476 (103 28' 33") CONTAMINANTS OTHER STREAM FLOW (M/SEC)
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE TAKEN APPROX. 150 M UPSTREAM FROM CONFLUENCE, OVER 20 M INTERVAL UPSTREAM, IN CENTER OF CHANNEL:
 1-60 CATTLE AND SHEEP GRAZING, ALKALAI SALTS;
 1-78 WILLIAM TURBIVILLE & BUFFALO, S.D. 57720;

404830 TYPE WELL WATER REPLICATE SAMPLER DKH AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4538 TIME TAKEN 16/17/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.748 (45 44' 52") LONG 103.489 (103 29' 20") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR - -CL QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 860 DISSOLVED OXYGEN(PPM) 6.6
 WATER TEMP(C) + 11.8 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 390 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 400
 APPEARANCE CLEAR DISCHARGE(L/M) 7.00 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON TPL CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION UNKNOWN
 METERS FROM HEAD 7 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY RARE
 DEPTH TO PROD HORIZON(M) 20 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH(M) 45 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 HAY CREEK 7.5' TOPO, WELL LOCATED WITHIN CORRALL JUST NORTH OF SHED, SAMPLE TAKEN FROM FEEDING TROUGH IMMEDIATELY ABOVE WELL, FROM PLASTIC PIPE:
 1-60 SUBMERSIBLE PUMP, OIL WELL NEARBY:
 1-78 CAVE HILLS CATTLE COMPANY & BOX 27 & BUFFALO, S.D. 57720;
 3-27 PUMP USED ONLY DURING WINTER:

404831 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 33.0 WEATHER CALM-CLEAR
 PHASE E MAP NL 1309 SITE 4539 TIME TAKEN 12/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.792 (45 47' 31") LONG 103.504 (103 30' 14") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN WITHIN GENTLE DEXTRAL MEANDER, BEGINNING AT LARGE TREE TRUNK IN STREAM BED, OVER 20M INTERVAL IN CENTER OF CHANNEL:
 1-60 HAY;
 1-78 CAVE HILLS CATTLE CO & BOX 27 & BUFFALO, S.D. 57720;

404832 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 33.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4540 TIME TAKEN 12/19/07/79 RELIEF MODERATE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.796 (45 47' 45") LONG 103.570 (103 34' 12") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN QDOR NONE

--- SEDIMENT INFORMATION: ---

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 15

--- REMARKS: ---

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN APPROX. 35M UPSTREAM FROM CONFLUENCE, BEGINNING AT LARGE DECIDUOUS TREE, OVER 20M
INTERVAL IN CENTER OF CHANNEL:
1-60 CATTLE GRAZING, OIL WELL 1/4 MILE UPSTREAM:
1-78 JIM CLARKSON & BUFFALO, S.D. 57720:

404833 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4541 TIME TAKEN 13/19/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.795(45 47'42") LONG 103.576(103 34'33") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMM RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BN-GY ODOR NONE

--- SEDIMENT INFORMATION: ---

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

--- REMARKS: ---

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN AT VERY HEAD OF CANYON, WORKING DOWNSTREAM OVER A 30M INTERVAL IN CENTER OF CHANNEL:
1-60 CATTLE:
1-78 JIM CLARKSON & BUFFALO, S.D. 57720:

404834 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 31.5 WEATHER CALM-CLEAR
PHASE E MAP NL1309 SITE 4542 TIME TAKEN 13/19/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.802(45 48' 7") LONG 103.580(103 34'48") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMM RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

--- SEDIMENT INFORMATION: ---

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

--- REMARKS: ---

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN AROUND PROMINENT DEXTRAL MEANDER, OVER 20 M INTERVAL, IN CENTER OF CHANNEL:
1-60 HEAVY GRASS OVERGROWTH CATTLE GRAZING:

404835 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4543 TIME TAKEN 14/19/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.814(45 48'50") LONG 103.576(103 34'33") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

--- SEDIMENT INFORMATION: ---

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 15

--- REMARKS: ---

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN BEGINNING AT CONFLUENCE OF MAIN STREAM AND TREE-LINED CHANNEL FROM THE SOUTH, OVER 20 M
INTERVAL DOWNSTREAM FROM THAT POINT, IN CENTER OF CHANNEL:
1-60 CATTLE GRAZING:
1-78 JIM CLARKSON & BUFFALO, S.D. 57720:

404836 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4544 TIME TAKEN 15/19/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.801(45 48' 3") LONG 103.553(103 33' 10") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR U-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 65 M UPSTREAM FROM CONFLUENCE, ALONG STRAIGHT STRETCH OF CHANNEL, OVER 20 M INTERVAL
 ALONG BANKS (FRESHEST SEDIMENT):
 1-60 CATTLE GRAZING:

404837 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4545 TIME TAKEN 15/19/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.799(45 47' 56") LONG 103.556(103 33' 21") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES , RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN BEGINNING WHERE COW PATH CROSSES BED, OVER 20 M INTERVAL UPSTREAM IN CENTER OF CHANNEL;
 1-60 CATTLE GRAZING;
 1-78 JIM CLARKSON & BUFFALO, S.D. 57720:

404838 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4546 TIME TAKEN 17/19/07/79 RELIEF MODERATE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.794(45 47' 38") LONG 103.525(103 31' 30") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 30

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 40M UPSTREAM FROM CONFLUENCE, BEGINNING WHERE COW TRAIL CROSSES STREAM OVER 20 M
 INTERVAL UPSTREAM IN CENTER OF CHANNEL;
 1-60 CATTLE:

404839 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4547 TIME TAKEN 17/19/07/79 RELIEF MODERATE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.795(45 47' 42") LONG 103.526(103 31' 33") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 35

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 30 M UPSTREAM FROM CONFLUENCE, OVER 20 M INTERVAL UPSTREAM, IN CENTER OF CHANNEL;
1-78 CAVE HILLS CATTLE CO. & BOX 27 & BUFFALO, S.D. 57720;

404840 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4548 TIME TAKEN 18/19/07/79 RELIEF GENTLE VEGETATION BRUSH-DENSE
LOCATION: LAT 45.797 (45 47' 49") LONG 103.536 (103 32' 9") CONTAMINANTS NONE STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 60 M UPSTREAM FROM CONFLUENCE, OVER 20 M INTERVAL UPSTREAM, IN CENTER OF CHANNEL;

404841 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4549 TIME TAKEN 18/19/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.803 (45 48' 10") LONG 103.534 (103 32' 2") CONTAMINANTS NONE STREAM FLOW(M/SEC) 0.40
WATER: WIDTH(M) 1.20 DEPTH(M) 0.05 LEVEL LOW
SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 BED MATERIAL PEBBLE SAMPLE: COLOR M-RD-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN ALONG THINNEST STRETCH OF STREAM BELOW MEANDER CLIFF, OVER 15 M INTERVAL, IN CENTER OF STREAM;
1-60 CATTLE, ALKALAI SALTS;

404842 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4550 TIME TAKEN 19/19/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.804 (45 48' 14") LONG 103.530 (103 31' 48") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 40

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN IN TIGHT MEADERS, JUST DOWNSTREAM OF ROCKY SECTION, OVER 10 M LENGTH OF DRYING POOLS;
1-60 CATTLE;
1-78 CAVE HILLS CATTLE CO. & BOX 27 & BUFFALO, S.D. 57720;

404843 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 28.5 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4551 TIME TAKEN 19/19/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.802 (45 48' 7") LONG 103.521 (103 31' 15") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN BEGINNING AT SECTION FENCE, DOWNSTREAM OVER A 20 M INTERVAL, IN CENTER OF CHANNEL;
1-60 CATTLE.

404844 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.5 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4552 TIME TAKEN 19/19/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.802(45 48' 7") LONG 103.518(103 31' 4") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 70 M UPSTREAM, OVER 20M INTERVAL UPSTREAM, IN CENTER OF CHANNEL;
1-60 CATTLE, ALKALAI SALT;

404846 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4553 TIME TAKEN 09/20/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.816(45 48' 57") LONG 103.505(103 30' 18") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN BEGINNING AT LARGE DECIDUOUS TREE, OVER 20 M INTERVAL UPSTREAM IN CENTER OF CHANNEL;
1-60 CATTLE;

404847 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4554 TIME TAKEN 10/20/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.763(45 45' 46") LONG 103.568(103 34' 4") CONTAMINANTS NONE STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPTR RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN APPROX 100 M AWAY FROM SPRING, NEXT TO SMALL HILLOCK, OVER 20 M INTERVAL UPSTREAM, IN CENTER OF CHANNEL;

404848 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4555 TIME TAKEN 10/20/07/79 RELIEF MODERATE VEGETATION GRASS-DENSE
LOCATION: LAT 45.762(45 45' 43") LONG 103.566(103 33' 57") CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 50

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 30 M AWAY FROM FENCE, OVER 15 M INTERVAL UPSTREAM, IN CENTER OF CHANNEL;

404849 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4556 TIME TAKEN 11/20/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.762 (45 45'43") LONG 103.564 (103 33'50") CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK QDQR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 35

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN APPROX 60 M UPSTREAM FROM CONFLUENCE, OVER 20 M INTERVAL IN CENTER OF CHANNEL;

404850 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.5 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4557 TIME TAKEN 12/20/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.840 (45 50'24") LONG 103.605 (103 36'18") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR D-BN-GY QDQR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 45

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25 M UPSTREAM FROM ROAD, OVER 15 M INTERVAL UPSTREAM, IN VARIOUS PARTS OF CHANNEL;
 1-60 CATTLE;

404851 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 29.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4558 TIME TAKEN 12/20/07/79 RELIEF GENTLE VEGETATION BRUSH-DENSE
 LOCATION: LAT 45.851 (45 51' 3") LONG 103.607 (103 36'25") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 45

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25 M UPSTREAM FROM CONFLUENCE, OVER 20 M INTERVAL UPSTREAM, IN CENTER OF CHANNEL;
 1-60 ALKALAL SALTS, CATTLE;

404852 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 30.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4559 TIME TAKEN 13/20/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE

LOCATION: LAT 45.858 (45 51' 28") LONG 103.6147 (103 36' 50") CONTAMINANTS OTHER
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25 M UPSTREAM FROM CONFLUENCE, OVER 20 M INTERVAL UPSTREAM IN CENTER OF CHANNEL;
 1-60 HORSE GRAZING;

404853 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 30.5 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4560 TIME TAKEN 13/20/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.858 (45 51' 28") LONG 103.609 (103 36' 32") CONTAMINANTS OTHER STREAM FLOW(M/SEC) LEVEL DRY
 WATER: WIDTH(M) DEPTH(M)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 5 M UPSTREAM FROM WHERE HORSE PATH CROSSES CHANNEL, OVER A 20 M INTERVAL UPSTREAM IN CENTER OF CHANNEL;
 1-60 HORSE GRAZING;

404854 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 28.5 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4561 TIME TAKEN 14/20/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.869 (45 52' 8") LONG 103.572 (103 34' 19") CONTAMINANTS OTHER STREAM FLOW(M/SEC) LEVEL DRY
 WATER: WIDTH(M) DEPTH(M)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN BEGINNING AT WHITISH TREE TRUNK IN CHANNEL, OVER 20 M INTERVAL UPSTREAM IN CENTER OF CHANNEL, AND ENDING WHERE COW PATH CROSSES STREAM;
 1-60 CATTLE;
 1-78 CAVE HILLS CATTLE CO & BOX 27 & BUFFALO, S.D. 57720;

404855 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4562 TIME TAKEN 15/20/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.846 (45 50' 45") LONG 103.596 (103 35' 45") CONTAMINANTS OTHER STREAM FLOW(M/SEC) LEVEL DRY
 WATER: WIDTH(M) DEPTH(M)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 25

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 30 M UPSTREAM FROM CONFLUENCE, ALONG STRAIGHT SECTION OF CHANNEL, OVER A 20 M INTERVAL

UPSTREAM:

1-60 ALKALAI SALTS, CATTLE GRAZING:

404856 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 31.5 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4563 TIME TAKEN 12/20/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.849 (45 50' 56") LONG 103.599 (103 35' 56") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25 M UPSTREAM FROM CONFLUENCE, OVER A 20 M INTERVAL UPSTREAM, IN CENTER OF CHANNEL:
 1-60 LOTS OF ALKALAI SALTS, CATTLE GRAZING:

404857 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4564 TIME TAKEN 12/21/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.838 (45 50' 16") LONG 103.592 (103 35' 31") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BK-GY ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 40

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN JUST UPSTREAM OF VERY TIGHT MEANDER BEND, OVER 15 M INTERVAL IN CENTER OF CHANNEL:
 1-60 HEAVY DECAYING VEGETATION NEAR POOLS, CATTLE GRAZING:

404858 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4565 TIME TAKEN 12/21/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.835 (45 50' 6") LONG 103.585 (103 35' 6") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 25

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25 M UPSTREAM FROM WHERE STREAM ENTERS FLOOD PLAIN, OVER 20 M INTERVAL UPSTREAM IN
 CENTER OF CHANNEL:
 1-60 CATTLE GRAZING:

404859 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 31.5 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4566 TIME TAKEN 12/21/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.817 (45 49' 11") LONG 103.548 (103 32' 52") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 30 M UPSTREAM FROM CONFLUENCE, OVER STRAIGHTER SECTION OF MEANDER, OVER A 20M INTERVAL UPSTREAM IN CENTER OF CHANNEL:
1-60 CATTLE GRAZING:

404860 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4567 TIME TAKEN 12/21/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.827 (45 49' 37") LONG 103.567 (103 33' 39") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 45

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN BEGINNING WHERE SECTION FENCE CROSSES STREAM, OVER A 20 M INTERVAL UPSTREAM IN CENTER OF CHANNEL:
1-60 CATTLE:

404861 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4568 TIME TAKEN 11/21/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.835 (45 50' 6") LONG 103.578 (103 34' 40") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 150M UPSTREAM FROM CONFLUENCE, OVER 20M INTERVAL UPSTREAM, FROM DIFFERENT PARTS OF THE CHANNEL:
1-60 CATTLE GRAZING:

404862 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4569 TIME TAKEN 11/21/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.838 (45 50' 16") LONG 103.586 (103 35' 9") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 45

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 35M UPSTREAM FROM CONFLUENCE, OVER 20M INTERVAL UPSTREAM BEGINNING AT MEANDER BEND:
1-60 CATTLE:

404863 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL
 PHASE E MAP NL1309 SITE 4570 TIME TAKEN 15/23/07/79 AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 LOCATION: LAT 45.865 (45 51'54") LONG 103.515 (103 30'54") RELIEF LOW VEGETATION GRASS-SPARSE
 CONTAMINANTS NONE STREAM FLOW(M/SEC) 0.30
 WATER: WIDTH(M) 0.20 DEPTH(M) 0.10 LEVEL HIGH
 SURFACE GEOL UNIT TPTR RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BN-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 LADNER SE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 45M UPSTREAM OF CONFLUENCE, FROM MID-CHANNEL;

404864 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH
 PHASE E MAP NL1309 SITE 4571 TIME TAKEN 15/23/07/79 AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 LOCATION: LAT 45.864 (45 51'50") LONG 103.515 (103 30'54") RELIEF LOW VEGETATION GRASS-MODERATE
 CONTAMINANTS NONE STREAM FLOW(M/SEC) 0.40
 WATER: WIDTH(M) 0.10 DEPTH(M) 0.05 LEVEL HIGH
 SURFACE GEOL UNIT TPTR RESULTS REG NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BN-GY ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 30M UPSTREAM FROM CONFLUENCE, BEGINNING AT SMALL DECIDUOUS TREE, OVER 20M INTERVAL UPSTREAM IN CENTER OF CHANNEL;

404865 TYPE SPRING WATER REPLICATE SAMPLER RSL
 PHASE E MAP NL1309 SITE 4572 TIME TAKEN 15/23/07/79 AIR TEMP(C) + 28.5 WEATHER LT WIND-PT CLDY
 LOCATION: LAT 45.865 (45 51'54") LONG 103.520 (103 31'12") RELIEF GENTLE VEGETATION GRASS-MODERATE
 CONTAMINANTS NONE SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 930 DISSOLVED OXYGEN(PPM) 2.1
 WATER TEMP(C) + 10.1 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 448 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 434
 APPEARANCE CLEAR DISCHARGE(L/M)
 PRODUCING HORIZON TPFL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION OTHER
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 LADNER S.E. 7.5' TOPO QUAD, SAMPLE COLLECTED FROM SPRING BOX ON EAST SIDE OF SMALL DRAW 100M SOUTH OF ROAD;
 3-21 (NO PIPE);

404866 TYPE SPRING WATER REPLICATE SAMPLER DKH
 PHASE E MAP NL1309 SITE 4573 TIME TAKEN 15/23/07/79 AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
 LOCATION: LAT 45.855 (45 51'18") LONG 103.547 (103 32'49") RELIEF LOW VEGETATION GRASS-MODERATE
 CONTAMINANTS NONE SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	490	DISSOLVED OXYGEN(PPM)	1.1
WATER TEMP(C)	+ 12.7	VISIBILITY(M)	CLEAR	PH 8.7	LO-ION PAPER
TOTAL ALKALINITY(PPM)	314	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	312
APPEARANCE	CLEAR	DISCHARGE(L/M)	4.00		
PRODUCING HORIZON	TPTR	CONFIDENCE	HIGH	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ARTESIAN	CASING	NONE	PIPE COMPOSITION	STEEL
METERS FROM HEAD		WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)		CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)		CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE		

REMARKS:

1-38 LADNER SE 7.5' TOPO QUAD, SAMPLE COLLECTED FROM PIPE EMPTYING INTO STOCK TANK BEHIND WOODEN WINDBREAK IN DRAW:

404867	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	DKH	AIR TEMP(C)	+ 26.0	WEATHER	LT WIND-OVERCAST				
	PHASE	E	MAP	NL1309	SITE	4574	TIME TAKEN	12/23/07/79	RELIEF	GENTLE	VEGETATION	GRASS-MODERATE	
	LOCATION:	LAT	45.770 (45 46' 12")	LONG	103.509 (103 30' 32")	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)					
	SURFACE GEOL UNIT	KGHH	RESULTS REQ	NO	RELEASED	800125	WATER WIDTH(M)		DEPTH(M)		LEVEL	DRY	
	SEDIMENT INFORMATION:												
	SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	10	ORGANIC MATERIAL(%)	20	SAMPLE:	COLOR	M-GY-BN	ODOR	NONE

REMARKS:

1-38 LADNER S.E. 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20 M INTERVAL STARTING 15 M UPSTREAM OF TIGHT MEANDER:

404868	TYPE	SPRING WATER	REPLICATE	SAMPLER	RSL	AIR TEMP(C)	+ 26.0	WEATHER	CALM-CLEAR			
	PHASE	E	MAP	NL1309	SITE	4575	TIME TAKEN	09/24/07/79	RELIEF	GENTLE	VEGETATION	BRUSH-MODERATE
	LOCATION:	LAT	45.762 (45 45' 43")	LONG	103.567 (103 34' 17")	CONTAMINANTS	NONE					
	SURFACE GEOL UNIT	TPFL	RESULTS REQ	YES	RELEASED	800125	SAMPLE: COLOR - -CL - QDQR NONE					

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1290	DISSOLVED OXYGEN(PPM)	1.1
WATER TEMP(C)	+ 12.2	VISIBILITY(M)	CLEAR	PH 6.9	LO-ION PAPER
TOTAL ALKALINITY(PPM)	425	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	423
APPEARANCE	CLEAR	DISCHARGE(L/M)	5.00		
PRODUCING HORIZON	TPFL	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ARTESIAN	CASING	NONE	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	20	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	
DEPTH TO PROD HORIZON(M)		CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH(M)		CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE		

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN FROM 20 M PLASTIC PIPE THAT EMPIES INTO WATERING TROUGH:
1-78 JIM CLARKSON & BUFFALO, S.D. 57720:

404869	TYPE	SPRING WATER	REPLICATE	SAMPLER	DKH	AIR TEMP(C)	+ 27.0	WEATHER	LT WIND-CLEAR
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PHASE E MAP NL1309 SITE 4578 TIME TAKEN 10/24/07/79 RELIEF MODERATE VEGETATION CONIFER/DECIDUOUS-MODERATE
 LOCATION: LAT 45.754 (45 45' 14") LONG 103.569 (103 34' 8") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPFL RESULTS REG YES, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1190 DISSOLVED OXYGEN (PPM) 10.0
 WATER TEMP (C) + 12.2 VISIBILITY (M) CLEAR PH 8.3 LD-TON PAPER
 TOTAL ALKALINITY (PPM) 594 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 589
 APPEARANCE CLEAR DISCHARGE (L/H) 0.50
 PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION OTHER
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN DIRECTLY FROM SPRING;
 1-78 JIM CLARKSON & BUFFALO, S.D. 57220;

404871 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP (C) + 29.5 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4578 TIME TAKEN 11/24/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.735 (45 44' 6") LONG 103.524 (103 31' 26") CONTAMINANTS NONE STREAM FLOW (M/SEC)
 SURFACE GEOL UNIT TPTR RESULTS REG NO, RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 75 ORGANIC MATERIAL (%) 25

REMARKS:

1-38 MCKENZIE BUTTE 7.5' TOPO, SAMPLE TAKEN OVER 20M INTERVAL BEGINNING 40M UPSTREAM FROM CONFLUENCE IN CENTER OF CHANNEL;

404872 TYPE STREAM SEDIMENT REPLICATE SAMPLER DKH AIR TEMP (C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4579 TIME TAKEN 18/01/08/79 RELIEF MODERATE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.711 (45 42' 39") LONG 103.581 (103 34' 51") CONTAMINANTS OIL FIELD STREAM FLOW (M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REG NO, RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING APPROXIMATELY 100 YDS UPSTREAM OF FLOOD PLAIN FROM MID-CHANNEL;
 1-60 BUFFALO OIL FIELD; TWO OIL WELLS IN DRAINAGE BASIN;

404873 TYPE SPRING WATER REPLICATE SAMPLER DKH AIR TEMP (C) + 28.0 WEATHER LT WIND-PJ CLDY
 PHASE E MAP NL1309 SITE 4580 TIME TAKEN 17/01/08/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.883 (45 52' 58") LONG 103.654 (103 39' 14") CONTAMINANTS AGRICULTURA
 SURFACE GEOL UNIT TPTR RESULTS REG NO, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	2630	DISSOLVED OXYGEN(PPM)	6.8
WATER TEMP(C)	+ 21.3	VISIBILITY(M)	CLEAR	PH 7.8	LO-ION PAPER
TOTAL ALKALINITY(PPM)	702	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	700
APPEARANCE	CLEAR	DISCHARGE(L/M)	0.40		
PRODUCING HORIZON	TPTR	CONFIDENCE	HIGH	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ARTESTAN	CASING	NONE	PIPE COMPOSITION	COPPER
METERS FROM HEAD	100	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	1	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION		PUBLICATION	
WELL DEPTH(M)	1	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION		OWNER	

REMARKS:

1-38 TABLE MOUNTAIN 7.5' TOPO QUAD, SAMPLE COLLECTED FROM STOCK TANK IN DRAW EAST OF HOUSE;
 1-60 LIVESTOCK;

404874	TYPE	SPRING WATER	REPLICATE	SAMPLER	DKH	AIR TEMP(C)	+ 27.5	WEATHER	LT WIND-PT CLDY			
	PHASE	E	MAP	NL1309	SITE	4581	TIME TAKEN	17/01/08/79	RELIEF	GENTLE	VEGETATION	BRUSH-MODERATE
	LOCATION:	LAT 45.900 (45 54' 0")	LONG	103.692 (103 41' 31")					CONTAMINANTS	NONE	SAMPLE:	COLOR - -CL - ODOR H2S
	SURFACE GEOL UNIT	TPFL	RESULTS REQ NO									

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	2930	DISSOLVED OXYGEN(PPM)	4.1
WATER TEMP(C)	+ 15.2	VISIBILITY(M)	CLEAR	PH 8.1	LO-ION PAPER
TOTAL ALKALINITY(PPM)	680	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	674
APPEARANCE	CLEAR	DISCHARGE(L/M)	0.50		
PRODUCING HORIZON	TPFL	CONFIDENCE	HIGH	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ARTESTAN	CASING	OTHER	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	20	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)		CONFIDENCE OF PRODUCING DEPTH		SOURCE OF PRODUCING INFORMATION			
WELL DEPTH(M)		CONFIDENCE OF WELL DEPTH		SOURCE OF DEPTH INFORMATION			

REMARKS:

1-38 TABLE MOUNTAIN 7.5' TOPO, SAMPLE TAKEN FROM 20H GALVANIZED PIPE ENTERING INTO STOCK TANK;
 1-60 GALVANIZED PIPE;
 3-20 ROCK;

404875	TYPE	SPRING WATER	REPLICATE	SAMPLER	DKH	AIR TEMP(C)	+ 26.0	WEATHER	LT WIND-PT CLDY			
	PHASE	E	MAP	NL1309	SITE	4582	TIME TAKEN	18/01/08/79	RELIEF	GENTLE	VEGETATION	BRUSH-MODERATE
	LOCATION:	LAT 45.842 (45 50' 31")	LONG	103.515 (103 30' 54")					CONTAMINANTS	NONE	SAMPLE:	COLOR - -CL - ODOR NONE
	SURFACE GEOL UNIT	TPTR	RESULTS REQ NO									

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	580	DISSOLVED OXYGEN(PPM)	4.5
WATER TEMP(C)	+ 17.5	VISIBILITY(M)	CLEAR	PH 7.5	LO-ION PAPER
TOTAL ALKALINITY(PPM)	302	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	300
APPEARANCE	CLEAR	DISCHARGE(L/M)	0.10		
PRODUCING HORIZON	TPTR	CONFIDENCE	HIGH	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ARTESIAN	CASING	NONE	PIPE COMPOSITION	OTHER
METERS FROM HEAD		WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)		CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)		CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN FROM BEEP LOCATED 350 YDS. DOWN FROM TOP OF MESA;
1-60 RUNOFF;

404887	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	RSL	AIR TEMP(C)	+ 30.5	WEATHER	LT WIND-PT CLDY			
	PHASE	E	MAP	NL1309	SITE	4728	TIME TAKEN	12/09/07/79	RELIEF	GENTLE	VEGETATION	GRASS-SPARSE
	LOCATION:	LAT	45.749(45 44'56")	LONG	103.471(103 28'15")	CONTAMINANTS	AGRICULTURA	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	KGMM	RESULTS REQ	YES	RELEASED	800125	WATER: WIDTH(M)	DEPTH(M)	LEVEL	DRY		
							BED MATERIAL	SILT	SAMPLE: COLOR	L-BN-GY	ODOR	NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF CONFLUENCE FROM MID-STREAM;
1-60 INTENSIVE PLOWING ALL AROUND STREAM BASIN;
1-78 CAVE HILLS CATTLE COMPANY & BOX 27 & BUFFALO, S.D. 57720;

404888	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	RSL	AIR TEMP(C)	+ 31.0	WEATHER	LT WIND-PT CLDY			
	PHASE	E	MAP	NL1309	SITE	4729	TIME TAKEN	13/09/07/79	RELIEF	GENTLE	VEGETATION	GRASS-SPARSE
	LOCATION:	LAT	45.749(45 44'56")	LONG	103.484(103 29' 2")	CONTAMINANTS	AGRICULTURA	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	TPFL	RESULTS REQ	YES	RELEASED	800125	WATER: WIDTH(M)	DEPTH(M)	LEVEL	DRY		
							BED MATERIAL	SILT	SAMPLE: COLOR	L-BN-GY	ODOR	NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF BARBED-WIRE FENCE (AND HOVEN-WIRE) NEAR STOCKADE FROM MID-CHANNEL;
1-60 INTENSIVE AGRICULTURE (PLOWED FIELDS);
1-78 CAVE HILLS CATTLE COMPANY & BOX 27 & BUFFALO, SD 57720;

404889	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	RSL	AIR TEMP(C)	+ 31.5	WEATHER	LT WIND-PT CLDY			
	PHASE	E	MAP	NL1309	SITE	4730	TIME TAKEN	13/09/07/79	RELIEF	GENTLE	VEGETATION	GRASS-SPARSE
	LOCATION:	LAT	45.731(45 43'51")	LONG	103.504(103 30'14")	CONTAMINANTS	AGRICULTURA	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	TPFL	RESULTS REQ	YES	RELEASED	800125	WATER: WIDTH(M)	DEPTH(M)	LEVEL	DRY		
							BED MATERIAL	SILT	SAMPLE: COLOR	L-BN-GY	ODOR	NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING AT END OF "TRAIL" FROM MID-STREAM;
1-60 EXTENSIVE PLOWING, FALLOW FIELDS;
1-78 CAVE HILLS CATTLE COMPANY & BOX 27 & BUFFALO, SD 57720;

404890 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 31.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4731 TIME TAKEN 13/09/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.728 (45 43' 40") LONG 103.484 (103 29' 2") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:
 1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 40M BELOW STOCK DAM WHICH HAS A SHEEP SHED WITH A GALVANIZED ROOF, FROM MIDSTREAM;
 1-60 EXTENSIVE PLOWING AROUND STREAM BASIN, GALVANIZED ROOF ON SHED UPSTREAM;

404891 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4732 TIME TAKEN 14/09/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.724 (45 43' 26") LONG 103.474 (103 28' 26") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 15

REMARKS:
 1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE FROM MID-CHANNEL;
 1-60 PLOWED FIELDS ALONG BANKS;
 1-78 CAVE HILLS CATTLE COMPANY & BOX 27 & BUFFALO, S.D. 57720;

404892 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 33.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4733 TIME TAKEN 16/09/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.743 (45 44' 34") LONG 103.437 (103 26' 13") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 15

REMARKS:
 1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF CONFLUENCE FROM MID-STREAM;
 1-60 EXTENSIVE SILTATION DUE TO NEARBY PLOWING;

404893 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 32.0 WEATHER LT WIND-PJ CLDY
 PHASE E MAP NL 1309 SITE 4734 TIME TAKEN 16/09/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.745 (45 44' 42") LONG 103.438 (103 26' 16") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF CONFLUENCE FROM MID-STREAM:
1-60 PLOWED FIELDS NEARBY:

404894 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4735 TIME TAKEN 14/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.742 (45 44' 31") LONG 103.430 (103 25' 48") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL POOLS
SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY QDQR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF BARBED WIRE FENCE WEST OF ROAD FROM MID-STREAM:
1-60 OIL WELL AND RIG UPSTREAM:

404895 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 34.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4736 TIME TAKEN 14/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.726 (45 43' 33") LONG 103.449 (103 26' 56") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY QDQR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 25M INTERVAL STARTING 25M UPSTREAM OF BARBED WIRE WEST OF ROAD FROM MID-STREAM:
1-60 PLOWED FIELDS AROUND STREAM BASIN AND STOCK DAM 50M UPSTREAM:

404896 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 34.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4737 TIME TAKEN 14/10/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
LOCATION: LAT 45.723 (45 43' 22") LONG 103.452 (103 27' 7") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY QDQR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF BARBED WIRE FENCES WEST OF ROAD FROM MID-STREAM:
1-60 PLOWED FIELD AROUND STREAM BASIN:

404897 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 34.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4738 TIME TAKEN 15/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.701 (45 42' 3") LONG 103.482 (103 28' 55") CONTAMINANTS NONE STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY

SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 HAY CREEK 7.5' TOPO, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE FROM MID-STREAM;

404898 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 34.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4751 TIME TAKEN 14/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.693(45 41' 34") LONG 103.503(103 30' 10") CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 40M UPSTREAM OF CONFLUENCE IN TREES;
 1-60 OIL WORKOVER RIG UPSTREAM 1KM;

404899 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 33.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4752 TIME TAKEN 14/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.715(45 42' 54") LONG 103.503(103 30' 10") CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF CONFLUENCE FROM MID STREAM;

404900 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 33.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4753 TIME TAKEN 14/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.715(45 42' 54") LONG 103.502(103 30' 7") CONTAMINANTS NONE STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-OR ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 25

REMARKS:

1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF CONFLUENCE FROM MID-STREAM;

404901 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 33.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4754 TIME TAKEN 13/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.721(45 43' 15") LONG 103.534(103 32' 2") CONTAMINANTS NONE STREAM FLOW(M/SEC)

WATER: WIDTH(M) DEPTH(M) LEVEL DRY

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE WITH SMALL CREEK FROM MID-STREAM;

404902 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 32.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4755 TIME TAKEN 16/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.707 (45 42' 25") LONG 103.551 (103 33' 3") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG

WATER: WIDTH(M) 4.00 DEPTH(M) 1.00 LEVEL POOLS
 BED MATERIAL SAND SAMPLE: COLOR L-BN-BK QDQR NONE

SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 15

REMARKS:

OIL WELLS AND EXTRACTORS THROUGHOUT DRAINAGE BASIN;
 1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING ON NORTHERN BANK OPPOSITE HUGE CUTBANK DUE SOUTH OF HOUSE;
 1-60 SAND, PEBBLES FROM GRAVEL PIT UPSTREAM;

404903 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 32.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4756 TIME TAKEN 16/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.716 (45 42' 57") LONG 103.565 (103 33' 54") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG

WATER: WIDTH(M) 5.00 DEPTH(M) 1.00 LEVEL POOLS
 BED MATERIAL PEBBLE SAMPLE: COLOR M-BN-OR ODOR NONE

SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 20M DOWNSTREAM OF DRIVEWAY FROM MID STREAM;
 1-60 GRAVEL PIT NEARBY; OIL WELLS THROUGHOUT DRAINAGE BASIN;

404904 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 34.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4757 TIME TAKEN 11/20/07/79 RELIEF MODERATE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.685 (45 41' 6") LONG 103.654 (103 39' 14") CONTAMINANTS NONE STREAM FLOW(M/SEC) LEVEL DRY

WATER: WIDTH(M) DEPTH(M)
 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY QDQR NONE

SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 LAHILL BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE FROM MID-STREAM;

404905 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 35.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4751 TIME TAKEN 12/20/07/79 RELIEF MODERATE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.677(45 40'37") LONG 103.692(103 41'31") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 80M UPSTREAM OF CONFLUENCE FROM MID-STREAM:

404906 TYPE WELL WATER REPLICATE SAMPLER RSL AIR TEMP(C) + 35.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4752 TIME TAKEN 13/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.699(45 41'56") LONG 103.679(103 40'44") CONTAMINANTS NONE
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR -CL QDQR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 590 DISSOLVED OXYGEN(PPH) 9.8
 WATER TEMP(C) + 12.7 VISIBILITY(M) CLEAR PH 6.9 LO-ION PAPER
 TOTAL ALKALINITY(PPH) 324 P ALKALINITY(PPH) 75 M ALKALINITY(PPH) 326
 APPEARANCE CLEAR DISCHARGE(L/M) HIGH SOURCE GEOL. INFERENCE
 PRODUCING HORIZON KGMM CONFIDENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION WIND CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 7 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE
 DEPTH TO PROD HORIZON(M) 18 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH(M) 18 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED FROM PUMP UNDER WINDMILL .3KM DUE WEST OF TRAIL:

404907 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 34.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4753 TIME TAKEN 13/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.696(45 41'45") LONG 103.680(103 40'48") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 15M UPSTREAM OF EDGE OF RESERVOIR FROM MID-STREAM:

404908 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 34.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4754 TIME TAKEN 13/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.696(45 41'45") LONG 103.684(103 41' 2") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 30M UPSTREAM OF RESERVOIR EDGE, FROM MID-STREAM;

404909 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 36.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4755 TIME TAKEN 14/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.705 (45 42' 18") LONG 103.699 (103 41' 56") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 45M DOWNSTREAM OF STOCK DAM FROM MID-CHANNEL;

404910 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 36.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4756 TIME TAKEN 14/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.704 (45 42' 14") LONG 103.698 (103 41' 52") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE FROM MID-STREAM;

404911 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 37.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4757 TIME TAKEN 14/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.704 (45 42' 14") LONG 103.698 (103 41' 52") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 20M UPSTREAM OF CONFLUENCE FROM MID-STREAM;

404912 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 36.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4758 TIME TAKEN 15/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.706 (45 42' 21") LONG 103.682 (103 40' 55") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) L 00 DEPTH(M) 0 JQ LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M DOWNSTREAM OF CONFLUENCE FROM MID-STREAM:

404913 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 37.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4759 TIME TAKEN 16/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.711 (45 42' 39") LONG 103.685 (103 41' 6") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 30M UPSTREAM OF CONFLUENCE FROM MID-STREAM:

404914 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 37.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4760 TIME TAKEN 14/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.714 (45 42' 50") LONG 103.686 (103 41' 9") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED STARTING 30M UPSTREAM OF STOCK DAM FROM MIDSTREAM OVER A 20M INTERVAL:

404915 TYPE WELL WATER REPLICATE SAMPLER RSL AIR TEMP(C) + 38.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4761 TIME TAKEN 14/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.708 (45 42' 28") LONG 103.634 (103 38' 2") CONTAMINANTS NONE
 SURFACE GEOL UNIT KGMH RESULTS REQ YES , RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1090 DISSOLVED OXYGEN(PPM) 2.5
 WATER TEMP(C) + 18.2 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER
 TOTAL ALKALINITY(PPM) P ALKALINITY(PPM) M ALKALINITY(PPM)
 APPEARANCE CLEAR DISCHARGE(L/H)
 PRODUCING HORIZON KGMH CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 18 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED FROM HYDRANT ON WEST SIDE OF HOUSE FROM FAUCET;
 1-78 DON MARTIAN & BUFFALO, S.D. 57720;

404917 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 38.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4762 TIME TAKEN 17/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.679 (45 40'44") LONG 103.607 (103 36'25") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 30M UPSTREAM OF SECTION-LINE FENCE IN GROVE OF TREES FROM MID-STREAM.

404918 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 38.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4763 TIME TAKEN 17/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.678 (45 40'40") LONG 103.586 (103 35' 9") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 25M UPSTREAM OF SECTION LINE FENCE FROM MID STREAM:
 J-60 COLICHE (ALKALI) PRESENT:

404919 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 38.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4764 TIME TAKEN 17/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.694 (45 41'38") LONG 103.612 (103 36'43") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-QR-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 LAHTI BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF SMALL CONFLUENCE FROM MID-STREAM:

404920 TYPE SPRING WATER REPLICATE SAMPLER RSL AIR TEMP(C) + 39.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4765 TIME TAKEN 15/22/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.753 (45 45'10") LONG 103.541 (103 32'27") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPTR RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2140 DISSOLVED OXYGEN(PPM) 5.7
 WATER TEMP(C) + 17.8 VISIBILITY(M) CLEAR PH 7.0 LO-JON PAPER
 TOTAL ALKALINITY(PPM) 797 P ALKALINITY(PPM) 5 M ALKALINITY(PPM) 789
 APPEARANCE CLEAR DISCHARGE(L/M) 2.00
 PRODUCING HORIZON TPFL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ARTESIAN	CASING	NONE	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	3	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	1	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	1	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 LADNER S.E. 7.5' TOPO QUAD, SAMPLE COLLECTED FROM GALVANIZED PIPE EMPTYING INTO STOCK TANK 3M EAST OF SPRING BELOW ROAD;

404921	TYPE	SPRING WATER	REPLICATE	SAMPLER RSL	AIR TEMP(C)	+ 39.0	WEATHER	LT WIND-PT CLDY
	PHASE	E	MAP NL 1309	SITE 4766	TIME TAKEN	15/22/07/79	RELIEF	GENTLE
	LOCATION:	LAT 45.753(45 45'10")	LONG 103.541(103 32'27")				VEGETATION	GRASS-SPARSE
	SURFACE GEOL UNIT	TPTR	RESULTS REG NO	,RELEASED 800125	CONTAMINANTS	NONE	SAMPLE: COLOR	- -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	1780	DISSOLVED OXYGEN(PPM)	2.4
WATER TEMP(C)	+ 12.8	VISIBILITY(M)	CLEAR	PH	7.4
TOTAL ALKALINITY(PPM)	711	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	706
APPEARANCE	CLEAR	DISCHARGE(L/M)	2.00		
PRODUCING HORIZON	TPFL	CONFIDENCE	HIGH	SOURCE	GEOLOGICAL INFERENCE

WELL INFORMATION:

TYPE	DUG	POWER CLASSIFICATION	ARTESIAN	CASING	NONE	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)	1	CONFIDENCE OF PRODUCING DEPTH	HIGH	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	1	CONFIDENCE OF WELL DEPTH	HIGH	SOURCE OF DEPTH INFORMATION	GEOLOGICAL INFERENCE		

REMARKS:

1-38 LADNER S.E. 7.5' TOPO QUAD, SAMPLE COLLECTED FROM PIPE EMPTYING INTO STOCK TANK; JOHNNY POCKET SPRING NO. 2;

404922	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER RSL	AIR TEMP(C)	+ 38.0	WEATHER	LT WIND-PT CLDY
	PHASE	E	MAP NL 1309	SITE 4767	TIME TAKEN	16/22/07/79	RELIEF	GENTLE
	LOCATION:	LAT 45.757(45 45'25")	LONG 103.529(103 31'44")				VEGETATION	GRASS-SPARSE
	SURFACE GEOL UNIT	TPFL	RESULTS REG NO	,RELEASED 800125	CONTAMINANTS	NONE	STREAM FLOW(M/SEC)	
					WATER: WIDTH(M)		DEPTH(M)	LEVEL DRY
					BED MATERIAL	SILT	SAMPLE: COLOR	L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	10	ORGANIC MATERIAL(%)	05
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REMARKS:

1-38 LADNER S.E. 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 20M UPSTREAM OF WATER'S EDGE FROM MID-STREAM;

404923	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER RSL	AIR TEMP(C)	+ 39.0	WEATHER	LT WIND-PT CLDY
	PHASE	E	MAP NL 1309	SITE 4768	TIME TAKEN	16/22/07/79	RELIEF	GENTLE
	LOCATION:	LAT 45.764(45 45'50")	LONG 103.516(103 30'57")				VEGETATION	GRASS-SPARSE
	SURFACE GEOL UNIT	TPFL	RESULTS REG NO	,RELEASED 800125	CONTAMINANTS	OTHER	STREAM FLOW(M/SEC)	
					WATER: WIDTH(M)		DEPTH(M)	LEVEL DRY
					BED MATERIAL	SILT	SAMPLE: COLOR	L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	10	ORGANIC MATERIAL(%)	05
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REMARKS:

1-38 LADNER SE 7.5' TOPO QUAD, SAMPLE COLLECTED STARTING 45 M BELOW DAM AND FENCE FROM MID STREAM;
1-60 STOCK DAM AND BARBED-WIRE FENCE UPSTREAM;

404924 TYPE SPRING WATER REPLICATE SAMPLER RSL AIR TEMP(C) + 38.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4769 TIME TAKEN 17/22/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
LOCATION: LAT 45.769(45 46' 8") LONG 103.556(103 33' 21") CONTAMINANTS NONE
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2710 DISSOLVED OXYGEN(PPH) 4.4
WATER TEMP(C) + 15.5 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER
TOTAL ALKALINITY(PPH) 744 P ALKALINITY(PPH) 75 M ALKALINITY(PPH) 736
APPEARANCE CLEAR DISCHARGE(L/M)
PRODUCING HORIZON TPFL CONFIDENCE HIGH SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION PLASTIC
METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M) 1 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
WELL DEPTH(M) 1 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 LADNER S.E. 7.5' TOPO QUAD, SAMPLE COLLECTED FROM PLASTIC PIPE EMPTYING INTO STOCK TANK IN DRAW;

404971 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4739 TIME TAKEN 10/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.702(45 42' 7") LONG 103.547(103 32' 49") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE FROM MID-STREAM;
1-60 BUFFALO OIL FIELD UPSTREAM;

404972 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4740 TIME TAKEN 10/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.702(45 42' 7") LONG 103.545(103 32' 42") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE FROM MID-STREAM;
1-60 SAMPLE COLLECTED 80 TO 100M DOWNSTREAM OF OIL WELL;

404973 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4741 TIME TAKEN 10/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.701(45 42' 3") LONG 103.528(103 31'40") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.30 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BN-OR ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING NEAR SMALL BUSHES FROM N. EDGE OF STREAM CHANNEL
 1-60 OIL WELLS AND EXTRACTORS UPSTREAM;

404974 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 32.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4742 TIME TAKEN 11/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.707(45 42' 25") LONG 103.526(103 31'33") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED STARTING 30M DOWNSTREAM OF ROAD OVER A 20M INTERVAL FROM MID-STREAM;

404975 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 32.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4743 TIME TAKEN 11/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.700(45 42' 0") LONG 103.515(103 30'54") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 30M UPSTREAM OF JONES CREEK CONFLUENCE FROM MID-STREAM;

404976 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 34.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4744 TIME TAKEN 12/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.698(45 41'52") LONG 103.521(103 31'15") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 MCKENZIE BUTTE 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE FROM MID-STREAM;
 1-60 STOCK DAM 1KM UPSTREAM;

404977 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) +32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4745 TIME TAKEN 12/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.685(45 41' 6") LONG 103.487(103 29' 13") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE FROM MID-STREAM;
 1-60 OIL WELL 100M UPSTREAM, TRAIL CROSSES CREEK 30M UPSTREAM;

404978 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) +33.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4746 TIME TAKEN 12/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.684(45 41' 2") LONG 103.498(103 29' 52") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 10M UPSTREAM OF CONFLUENCE FROM MID-STREAM;
 1-60 OIL WELLS, EXTRACTORS UPSTREAM;

404979 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) +33.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4747 TIME TAKEN 13/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.685(45 41' 6") LONG 103.498(103 29' 52") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED STARTING 10M UPSTREAM OF CONFLUENCE OVER A 20M INTERVAL FROM MID-STREAM;
 1-60 OIL RIG (WORK-OVER) UPSTREAM;

404980 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) +33.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4748 TIME TAKEN 13/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.688(45 41' 16") LONG 103.493(103 29' 34") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 40M UPSTREAM FROM JONES CREEK/CONFLUENCE FROM
 MID-STREAM;

404981 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 34.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4749 TIME TAKEN 13/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.688(45 41'16") LONG 103.486(103 29' 9") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-BN-OR ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED STARTING 30 UPSTREAM OF CONFLUENCE OVER A 20M INTERVAL FROM MID-STREAM;
 1-60 SMALL DRAINAGE BASIN, LITTLE WATER TRANSPORT OF SEDIMENTS;

404982 TYPE STREAM SEDIMENT REPLICATE SAMPLER RSL AIR TEMP(C) + 34.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4750 TIME TAKEN 13/11/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.694(45 41'38") LONG 103.497(103 29'49") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 HAY CREEK 7.5' TOPO QUAD, SAMPLE COLLECTED OVER A 20M INTERVAL STARTING 45M UPSTREAM OF CONFLUENCE FROM MID-STREAM;
 1-60 OIL WELL .8 KM UPSTREAM;

404983 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 1088 TIME TAKEN 16/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.708(45 42'28") LONG 103.638(103 38'16") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 26 M. INTERVAL STARTING WHERE STREAM BED NARROWS;
 1-60 DEAD RAM APPROX. 45 M. NORTH FROM WHERE SAMPLE WAS TAKEN, JUNK YARD NEXT TO STREAM;
 1-78 DON MARTIAN & BUFFALO, S.D. # 57720;

404984 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 1089 TIME TAKEN 17/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.711(45 42'39") LONG 103.647(103 38'49") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-BN- ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 2 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 25 M. INTERVAL STARTING WHERE STREAM BENDS SOUTH AT SAGE BUSH GOING DOWNSTREAM;

1-78 DON MARTIN & BUFFALO S.D. & 577201

404985 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 1090 TIME TAKEN 17/10/07/79 RELIEF LOW VEGETATION MOSS-MODERATE
 LOCATION: LAT 45.712 (45 42' 43") LONG 103.640 (103 38' 24") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 22 M. INTERVAL GOING UPSTREAM STARTING WHERE STREAM BED TURNS NE.;
 1-78 DON MARTIN & BUFFALO S.D. & 577201

404986 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 33.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 1091 TIME TAKEN 17/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.709 (45 42' 32") LONG 103.658 (103 39' 28") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 20 M. INTERVAL GOING UPSTREAM STARTING AT SMALL TREE TRUNK ON BANK;

404987 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 1092 TIME TAKEN 18/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.709 (45 42' 32") LONG 103.662 (103 39' 43") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 26 M. INTERVAL GOING UPSTREAM STARTING WHERE STREAM BEGINS TO TURN SOUTH;

404988 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 1093 TIME TAKEN 09/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.728 (45 43' 40") LONG 103.679 (103 40' 44") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 28 M. INTERVAL STARTING 40 M. FROM WHERE ROAD CROSSES STREAM AS STREAM TURNS:
1-60 OLD TIRE, CUTTERS INSECT REPELLENT:

404989 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 1094 TIME TAKEN 10/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.724 (45 43' 26") LONG 103.685 (103 41' 6") CONTAMINANTS NONE STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN QDOR H2S
SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 20 M. INTERVAL GOING UPSTREAM STARTING WHERE ERODED SOIL HILL IS IN STREAM:
1-60 CUTTERS INSECT REPELLENT:

404990 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 1095 TIME TAKEN 10/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.723 (45 43' 22") LONG 103.686 (103 41' 9") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY ODOR NONE
SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN IN MIDDLE OF STREAM GOING UPSTREAM STARTING WHERE STREAM TURNS SW OVER A 29 M.
INTERVAL:
1-60 CUTTERS INSECT REPELLENT:

404991 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 28.0 WEATHER -CLEAR
PHASE E MAP NL1309 SITE 1096 TIME TAKEN 11/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.726 (45 43' 33") LONG 103.674 (103 40' 26") CONTAMINANTS NONE STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BU-BN ODOR NONE
SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 25 M. INTERVAL IN MIDDLE OF STREAM GOING UPSTREAM STARTING AT HORSETAILS IN
STREAM AS STREAM TURNS SOUTH:

404992 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 31.0 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 1097 TIME TAKEN 11/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.739 (45 44' 20") LONG 103.654 (103 39' 14") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 27 M. INTERVAL STARTING 75 M. UPSTREAM FROM WHERE ROAD CROSSES STREAM WHERE METAL POLE IS IN STREAM:

404993 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 32.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 1098 TIME TAKEN 11/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.743 (45 44' 34") LONG 103.651 (103 39' 3") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.50 LEVEL NORMAL
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 27 M. INTERVAL GOING UPSTREAM STARTING AT THE TREES ON THE SOUTH BANK AS STREAM BENDS SHARPLY:
 1-60 OIL FIELDS ABOUT 1/2 KM AWAY:

404994 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 31.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 1099 TIME TAKEN 11/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.745 (45 44' 42") LONG 103.647 (103 38' 49") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 37M. INTERVAL, STARTING WHERE STREAM TURNS NW. :
 1-60 OLD RUSTY METAL POT, OIL FIELDS:

404995 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 2300 TIME TAKEN 12/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.737 (45 44' 13") LONG 103.636 (103 38' 9") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 25M. INTERVAL GOING UPSTREAM IN MIDDLE OF STREAM BED STARTING APPROX 20M. UPSTREAM IN METAL SHEET ON STREAM BANK:
 1-60 OIL FIELD, METAL SHEET ON BANK OF STREAM:

404996 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY

PHASE E MAP NL 1309 SITE 2301 TIME TAKEN 13/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.722 (45 43' 19") LONG 103.627 (103 37' 37") CONTAMINANTS OIL FIELD STREAM FLOW (M/SEC)

SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:
 1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 32M. INTERVAL GOING UPSTREAM STARTING WHERE STREAM TURNS EAST;
 1-60 OIL WELLS NEARBY;

404997 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP (C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 2302 TIME TAKEN 14/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.715 (45 42' 54") LONG 103.651 (103 39' 3") CONTAMINANTS OIL FIELD STREAM FLOW (M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 05

REMARKS:
 1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 27M. INTERVAL GOING UPSTREAM STARTING AT BABY TREE ON WEST BANK;
 1-60 OIL WELL NEARBY;

404998 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP (C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 2303 TIME TAKEN 14/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.715 (45 42' 54") LONG 103.662 (103 39' 43") CONTAMINANTS OIL FIELD STREAM FLOW (M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 15

REMARKS:
 1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN OVER A 30M. INTERVAL GOING UPSTREAM STARTING WHERE DRAIN MEETS STREAM;
 1-60 OIL WELL;

404999 TYPE STREAM SEDIMENT REPLICATE SAMPLER LAL AIR TEMP (C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 2304 TIME TAKEN 15/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.716 (45 42' 57") LONG 103.660 (103 39' 36") CONTAMINANTS OIL FIELD STREAM FLOW (M/SEC) NONE
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL POOLS
 BED MATERIAL SILT SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 25

REMARKS:
 1-38 LATHI BUTTE 7.5' TOPO SAMPLE TAKEN IN MIDDLE OF STREAM OVER A 30M. INTERVAL STARTING WHERE TELEPHONE WIRES CROSS STREAM
 GOING UPSTREAM;
 1-60 OIL WELL;

405876 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) +24.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4208 TIME TAKEN 09/06/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.532 (45 31'55") LONG 103.095 (103 5'42") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 3.00 DEPTH(M) 0.50 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 REVA S.D. 7.5' TOPO, SAMPLE TAKEN AT SOUTHWARD BEND OF STREAM NEXT TO HWAY 79 SAMPLE TAKEN OVER 25M INTERVAL STARTING AT
 SMALL BRUSH PATCH OF TREES;
 1-60 GRASS SAMPLE TAKEN UPSTREAM FROM LARGE CEMENT CULVERT;

405877 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) +25.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4209 TIME TAKEN 09/06/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.536 (45 32' 9") LONG 103.096 (103 5'45") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 3.00 DEPTH(M) 0.50 LEVEL POOLS
 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 REVA S.D. 7.5' TOPO SAMPLE TAKEN AT NORTHERN BRANCH OF STREAM NEXT TO HWAY 79 WHERE SMALL ROAD RUNS 30M FROM STREAM,
 SAMPLE TAKEN OVER 25M INTERVAL STARTING AT A GROUP OF BUSHES;
 1-60 GRASS;

405878 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) +25.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4210 TIME TAKEN 10/06/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.541 (45 32' 27") LONG 103.116 (103 6'57") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR U-GY-BN ODOR H2S
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 REVA S.D. 7.5' TOPO, SAMPLE TAKEN DOWN SLOPE FROM HISTORICAL MARKER (EASTWARD SLOPE) SAMPLE TAKEN OVER 25M INTERVAL
 STARTING STRAIT EAST OF MARKER;
 1-60 CEMENT CULVERT;

405879 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) +25.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4211 TIME TAKEN 10/06/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.539 (45 32' 20") LONG 103.113 (103 6'46") CONTAMINANTS NONE STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL POOLS
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR H2S
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 REVA S.D. 7.5' TOPO, SAMPLE TAKEN AT SECOND GROVE OF TREES SOUTH OF HISTORICAL MARKER (ABOUT .5 MILE AWAY FROM MARKER) OVER 25M INTERVAL:

405880 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 25.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4212 TIME TAKEN 10/06/07/79 RELIEF MODERATE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.510 (45 30' 36") LONG 103.086 (103 5' 9") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-WH ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 REVA S.D. SAMPLE TAKEN NEAR HWY. 79, SAMPLE TAKEN WHERE CREEK DIVIDES, WEST OF HWY. SAMPLE TAKEN OVER 30M INTERVAL:

405881 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 25.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4213 TIME TAKEN 10/06/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.546 (45 32' 45") LONG 103.058 (103 3' 28") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN OFF HWY 20 WHERE STREAM TAKES 2ND SOUTH BEND. SAMPLE TAKEN OVER 20M INTERVAL STARTING 50M NORTH OF HWY:

405882 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4201 TIME TAKEN 11/09/07/79 RELIEF LOW VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.521 (45 31' 15") LONG 103.008 (103 0' 28") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 REVA S.D. 7.5' TOPO, SAMPLE TAKEN AT SOUTH FORK OF STREAM NEAR SMALL BUTTE WITH SANDSTONE OUTCROP, SAMPLE TAKEN OVER 25M INTERVAL:

1-60 GRASS;
 1-78 DWIGHT SABO & REVA, S.D. 57651:

405883 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4202 TIME TAKEN 11/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.519 (45 31' 8") LONG 103.007 (103 0' 25") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 REVA S.D. 7.5' TOPO, SAMPLE TAKEN AT NORTH FORK OF STREAM NEAR SHALL BUTTE WITH SANDSTONE OUTCROP, SAMPLE TAKEN OVER 25M INTERVAL;
 1-60 GRASS;
 1-78 DWIGHT SABO & REVA, SOUTH DAKOTA 57651;

405884 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4203 TIME TAKEN 11/09/07/79 RELIEF FLAT VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.532 (45 31'55") LONG 103.020 (103 1'12") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 REVA S.D. 7.5' TOPO, SAMPLE TAKEN PARALLEL TO ROAD OVER 20M INTERVAL STARTING 30M UPSTREAM FROM CULVERT;
 1-60 GRASS, CULVERT THE STREAM IS NOW A DRAINAGE DITCH;

405885 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4204 TIME TAKEN 12/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.528 (45 31'40") LONG 103.021 (103 1'15") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 9.00 DEPTH(M) 1.00 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN UPSTREAM FROM STOCK DAM WHICH IS LOCATED SE OF FARM HOUSE, SAMPLE TAKEN WERE SW STREAM BRANCHES OFF STOCK DAM OVER 25M INTERVAL;
 1-60 GRASS, STOCK DAM;

405886 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4205 TIME TAKEN 12/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.533 (45 31'58") LONG 103.022 (103 1'19") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 REVA S.D. 7.5' TOPO, SAMPLE TAKEN UPSTREAM FROM FARMERS ROAD, SAMPLE TAKEN OVER 25M INTERVAL STARTING 30M WEST OF CULVERT;
 1-60 GRASS, CULVERT;

405887 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4206 TIME TAKEN 12/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.550 (45 33' 0") LONG 103.032 (103 1' 55") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 7190 DISSOLVED OXYGEN (PPH) 5.0
 WATER TEMP(C) + 13.3 VISIBILITY (M) CLEAR PH 8.6 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 620 P ALKALINITY (PPH) 30 M ALKALINITY (PPH) 600
 APPEARANCE CLEAR DISCHARGE (L/M) 19.00
 PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 30 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON (M) 54 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH (M) 54 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 REVA S.D. 7.5' TOPO, SAMPLE TAKEN FROM FAUCET ON NORTH SIDE OF HOUSE, SAMPLE TAKEN 30M FROM WELL;
 1-60 FAUCET, PRESSURE TANK SUBHERSTIBLE PUMP;
 1-78 ROBERT TENOLD & REVA, SOUTH DAKOTA 57651;

405888 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4207 TIME TAKEN 12/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.544 (45 32' 38") LONG 103.044 (103 2' 38") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 WATER: WIDTH (M) 1.00 DEPTH (M) 0.10 LEVEL POOLS
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 40

REMARKS:

1-38 REVA, S.D. 7.5' TOPO, SAMPLE TAKEN 100M WEST OF ELM TREE NEXT TO FENCE LINE, SAMPLE TAKEN OVER 20M INTERVAL STARTING AT
 BEND THAT TURNS NORTH WEST;
 1-60 GRASS;

405889 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4214 TIME TAKEN 12/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.542 (45 32' 31") LONG 103.039 (103 2' 20") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN AT STREAM DIRECTLY WEST OF FENCE LINE OVER 25M INTERVAL STARTING AT THIRD TELEPHONE POLE PAST
 TREE;
 1-60 GRASS;

405890 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4215 TIME TAKEN 13/09/07/79 RELIEF LOW VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.537(45 32'13") LONG 103.037(103 2'13") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR L-GY-WH ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN SOUTH OF ABANDONED FARM HOUSE, SAMPLE TAKEN FROM SECOND STREAM SOUTH OF FARMHOUSE OVER 25M
 STARTING WHERE FARM "ROAD" CROSSES STREAM BED AND WORKING WESTWARD:
 1-60 GRASS:

405892 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4216 TIME TAKEN 13/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.539(45 32'20") LONG 103.038(103 2'16") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 860 DISSOLVED OXYGEN(PPM) 6.0
 WATER TEMP(C) + 17.2 VISIBILITY(M) CLEAR PH 9.2 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 538 P ALKALINITY(PPM) 60 M ALKALINITY(PPM) 496
 APPEARANCE OTHER DISCHARGE(L/M) 10.00
 PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY INFREQUENT
 DEPTH TO PROD HORIZON(M) 33 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 33 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 REVA 7.5' TOPO SAMPLE TAKEN FROM STOCK TANK EAST (3M) OF WELL WELL LOCATED 40M N W OF ABANDONED FARM HOUSE:
 1-60 GALVANIZED PIPE, IRON PUMP;
 2-68 RUSTY:

405893 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4217 TIME TAKEN 15/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.508(45 30'28") LONG 103.052(103 3' 7") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2100 DISSOLVED OXYGEN(PPM) 3.2
 WATER TEMP(C) + 14.2 VISIBILITY(M) CLEAR PH 8.9 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 596 P ALKALINITY(PPM) 48 M ALKALINITY(PPM) 570
 APPEARANCE CLEAR DISCHARGE(L/M) 20.00
 PRODUCING HORIZON KGMH CONFIDENCE HIGH SOURCE OWNER

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK BEFORE USE STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) 104 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER

WELL DEPTH(M) 104 CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM WELL 10M EAST OF HOUSE, SAMPLE TAKEN DIRECTLY FROM WELL AT PUMP;
 1-60 IRON PUMP OWNER HAS PAST EXPERIENCE WITH SELENIUM POISONING;
 1-78 DARRELL LEE & REVA, SOUTH DAKOTA 57651;

405894 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4218 TIME TAKEN 13/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.507 (45 30' 25") LONG 103.057 (103 3' 25") CONTAMINANTS AGRICULTURA
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1290 DISSOLVED OXYGEN(PPM) 4.6
 WATER TEMP(C) + 12.7 VISIBILITY(M) CLEAR PH 9.5 LO-TON PAPER
 TOTAL ALKALINITY(PPM) 400 P ALKALINITY(PPM) 140 M ALKALINITY(PPM) 400
 APPEARANCE MURKY DISCHARGE(L/M) 10.00
 PRODUCING HORIZON KGMH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY INFREQUENT
 DEPTH TO PROD HORIZON(M) 72 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION PUBLICATION
 WELL DEPTH(M) 81 CONFIDENCE OF WELL DEPTH HIGH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM STOCK TANK WEST OF HOUSE (.5KM) SAMPLE TAKEN FROM GALVANIZED PIPE 1M FROM WELL HEAD;
 1-60 SUBMERSIBLE PUMP RUSTY PIPE;
 1-78 DARRELL LEE & REVA SOUTH DAKOTA 57651;

405895 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4219 TIME TAKEN 16/09/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.505 (45 30' 18") LONG 103.052 (103 3' 7") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-WH-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) .05

REMARKS:

1-38 REVA 7.5' TOPO SAMPLE TAKEN AT FIRST STREAM SOUTH OF HOUSE STARTING AT LARGE COTTONWOOD TREE OVER A 30M INTERVAL;
 1-60 GRASS;

405896 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4220 TIME TAKEN 16/09/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.507 (45 30' 25") LONG 103.055 (103 3' 18") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL LOW
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-30 CULVERT, GRASS:

1-38 REVA S.D. 7.5' TOPO, SAMPLE TAKEN UPSTREAM FROM STOCK DAM WITH TREES, SAMPLE TAKEN OVER 30M INTERVAL:

1-78 DARRELL LEE & REVA, SOUTH DAKOTA 57651:

405897 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4221 TIME TAKEN 16/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.511 (45 30'39") LONG 103.055 (103 3'18") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 REVA S.D. 7.5' TOPO, SAMPLE TAKEN NEXT TO ROAD LEADING TO FARM HOUSE, SAMPLE TAKEN 25M INTERVAL STARTING AT WEST BEND IN STREAM WHICH CROSSES ROAD:

1-60 CULVERT, SELENIUM POISONING RECOGNIZED IN CATTLE:

1-78 DARRELL LEE & REVA, SOUTH DAKOTA 57651:

405898 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4222 TIME TAKEN 16/09/07/79 RELIEF LOW VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.503 (45 30'10") LONG 103.042 (103 2'31") CONTAMINANTS NONE STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 3.50 DEPTH(M) 0.10 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN PAST A SECOND SMALL TRIBUTARY OF THE MAIN CREEK OVER A 25M INTERVAL STARTING WHERE CREEK CROSSES ROAD BED:

405899 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4223 TIME TAKEN 16/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.507 (45 30'25") LONG 103.066 (103 3'57") CONTAMINANTS NONE STREAM FLOW(M/SEC) -
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-WH ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN AT POINT WHERE ROAD CROSSES TWO STREAM BEDS THE SECOND STREAM BED TO THE SH OF FARM HOUSE, SAMPLE TAKEN AT POINT JUST BELOW LARGE BUTTE OVER 25M INTERVAL:

405900 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4224 TIME TAKEN 17/09/07/76 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.513 (45 30'46") LONG 103.054 (103 3'14") CONTAMINANTS NONE STREAM FLOW(M/SEC)

--- SURFACE GEOL UNIT TPFL --- RESULTS REQ NO ,RELEASED 800125 --- BED MATERIAL SILT --- SAMPLE: COLOR D-BK-BK --- ODOR H2S ---

SEDIMENT INFORMATION:

--- SAMPLE CONDITION WET --- SAMPLE TREATMENT NONE --- NUMBER OF GRABS 7 --- ORGANIC MATERIAL (%) 40 ---

REMARKS:

--- 1-38 REVA 7.5' TOPO, SAMPLE TAKEN WEST OF STOCK POND WHERE 2 STREAMS MEET OVER 30M INTERVAL: ---
 --- 1-60 STOCK USE, GRASS: ---

--- 405904 --- TYPE STREAM SEDIMENT --- REPLICATE --- SAMPLER JCA --- AIR TEMP(C) + 27.0 --- WEATHER LT WIND-PT CLDY ---
 --- PHASE E --- MAP NL1309 --- SITE 4227 --- TIME TAKEN 14/10/07/79 --- RELIEF LOW --- VEGETATION GRASS-SPARSE ---
 --- LOCATION: LAT 45.567(45 34' 1") LONG 103.116(103 6' 57") --- CONTAMINANTS OTHER --- STREAM FLOW(M/SEC) ---

--- WATER: WIDTH(M) --- DEPTH(M) --- LEVEL DRY ---

--- SURFACE GEOL UNIT TPFL --- RESULTS REQ NO ,RELEASED 800125 --- BED MATERIAL SILT --- SAMPLE: COLOR L-GY-WH --- ODOR NONE ---

SEDIMENT INFORMATION:

--- SAMPLE CONDITION DRY --- SAMPLE TREATMENT NONE --- NUMBER OF GRABS 7 --- ORGANIC MATERIAL (%) 50 ---

REMARKS:

--- 1-38 REVA 7.5' TOPO, SAMPLE TAKEN SW OF FARMERS HOUSE IN WHAT USED TO BE A STREAM BUT NOW IS A SMALL DITCH BETWEEN GARAGE: ---
 --- 1-60 GRASS, USED TO BE STREAM BED BUT NOW USED AS ROAD?: ---

--- 405905 --- TYPE WELL WATER --- REPLICATE --- SAMPLER JCA --- AIR TEMP(C) + 29.0 --- WEATHER LT WIND-PT CLDY ---
 --- PHASE E --- MAP NL1309 --- SITE 4228 --- TIME TAKEN 14/10/07/79 --- RELIEF GENTLE --- VEGETATION GRASS-MODERATE ---
 --- LOCATION: LAT 45.537(45 32' 13") LONG 103.144(103 8' 38") --- CONTAMINANTS OTHER ---

--- SURFACE GEOL UNIT TPFL --- RESULTS REQ YES ,RELEASED 800125 --- SAMPLE: COLOR - - -CL --- ODOR NONE ---

GENERAL WATER INFORMATION:

--- TREATMENT NONE --- CONDUCTIVITY(MICROMHOS/CM) 4540 --- DISSOLVED OXYGEN(PPM) 8.9 ---

--- WATER TEMP(C) + 12.5 --- VISIBILITY(M) CLEAR --- PH 8.4 --- LO-ION PAPER ---

--- TOTAL ALKALINITY(PPM) 962 --- P ALKALINITY(PPM) <5 --- M ALKALINITY(PPM) 940 ---

--- APPEARANCE OTHER --- DISCHARGE(L/M) 30.00 ---

--- PRODUCING HORIZON TPFL --- CONFIDENCE POSSIBLE --- SOURCE GEOL. INFERENCE ---

WELL INFORMATION:

--- TYPE DRILLED --- POWER CLASSIFICATION ELECTRIC --- CASING PLASTIC --- PIPE COMPOSITION PLASTIC ---

--- METERS FROM HEAD 7 --- WITH RESPECT TO PRESSURE TANK NONE --- USE NONE --- PUMPING FREQUENCY FREQUENT ---

--- DEPTH TO PROD HORIZON(M) 35 --- CONFIDENCE OF PRODUCING DEPTH PROBABLE --- SOURCE OF PRODUCING INFORMATION OWNER ---

--- WELL DEPTH(M) 42 --- CONFIDENCE OF WELL DEPTH PROBABLE --- SOURCE OF DEPTH INFORMATION OWNER ---

REMARKS:

--- 1-38 BATTLESHIP ROCK 7.5' TOPO SAMPLE TAKEN FROM GARDEN HOSE CONNECTED FROM NEWLY DUG WELL LOCATED NW OF FARM BUILDINGS: ---
 --- 1-60 SUBMERSIBLE PUMP, GARDEN HOSE: ---
 --- 1-78 GEORGE LERMENY & REVA SD. 5765L: ---
 --- 2-68 RUSTY WATER: ---

--- 405906 --- TYPE STREAM SEDIMENT --- REPLICATE --- SAMPLER JCA --- AIR TEMP(C) + 27.0 --- WEATHER LT WIND-PT CLDY ---
 --- PHASE E --- MAP NL1309 --- SITE 4229 --- TIME TAKEN 15/10/07/79 --- RELIEF LOW --- VEGETATION GRASS-MODERATE ---
 --- LOCATION: LAT 45.560(45 33' 36") LONG 103.085(103 5' 6") --- CONTAMINANTS AGRICULTURA --- STREAM FLOW(M/SEC) ---

--- WATER: WIDTH(M) --- DEPTH(M) --- LEVEL DRY ---

--- SURFACE GEOL UNIT TPFL --- RESULTS REQ NO ,RELEASED 800125 --- BED MATERIAL SILT --- SAMPLE: COLOR M-BN-BN --- ODOR NONE ---

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 REVA 7.5' TOPO SAMPLE TAKEN WHERE FARM TRAIL CROSSES STREAM BED NEAR ELM TREES STARTING AT SOUTH SIDE OF ROAD OVER 25M INTERVAL
1-60 FARMER'S FIELD ON EITHER SIDE:

405907 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL 1309 SITE 4226 TIME TAKEN 15/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.558 (45 33' 28") LONG 103.085 (103 5' 6") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 4.00 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REG NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 19

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN UPSTREAM NW OF SMALLER STOCK POND OVER 25M INTERVAL STARTING AT SMALL GROUP OF ELM TREES
LOCATED BETWEEN 2 FARMERS FIELDS;
1-60 AGRICULTURAL PLANTING?:

405908 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL 1309 SITE 4225 TIME TAKEN 16/10/07/79 RELIEF MODERATE VEGETATION GRASS-SPARSE
LOCATION: LAT 45.512 (45 30' 43") LONG 103.096 (103 5' 45") CONTAMINANTS OTHER
SURFACE GEOL UNIT TPFL RESULTS REG YES , RELEASED 800125 SAMPLE: COLOR - -CL - QDQR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3080 DISSOLVED OXYGEN(PPM) 7.1
WATER TEMP(C) + 15.3 VISIBILITY(M) CLEAR PH 8.9 LO-ION PAPER
TOTAL ALKALINITY(PPM) 600 P ALKALINITY(PPM) 20 M ALKALINITY(PPM) 570
APPEARANCE CLEAR DISCHARGE(L/M) 10.00
PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING OTHER PIPE COMPOSITION UNKNOWN
METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 99 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
WELL DEPTH(M) 99 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM HYDRANT LOCATED 5 METERS NE. OF WELL, WELL LOCATED 25M NE. OF HOUSE;
1-60 HYDRANT;
1-78 ZANE VERHULST & REVA, S.D., 57651;
3-20 CEMENT CASING;

405909 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL 1309 SITE 4233 TIME TAKEN 13/11/07/79 RELIEF LOW VEGETATION GRASS-SPARSE
LOCATION: LAT 45.520 (45 31' 12") LONG 103.062 (103 3' 43") CONTAMINANTS NONE STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REG NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 REVA, 7.5' TOPO, SAMPLE TAKEN AT STREAM BED WHICH RUNS PARALLEL (50M AWAY) FROM E-W. FARM ROAD, SAMPLE TAKEN OVER 40M INTERVAL STARTING AT SUMAC BUSHES IN CENTER OF CREEK BED:
1-60 GRASS:

405910 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL 1309 SITE 4234 TIME TAKEN 13/11/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE
LOCATION: LAT 45.530 (45 31' 48") LONG 103.070 (103 4' 12") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 3.00 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 35

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM STAGNANT STREAM 40M SW OF STOCK POND, STARTING 40M SW OF STOCK POND NEAR LARGE ELM TREE OVER 25M INTERVAL:
1-60 STOCK POND NEARBY:

405911 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 25.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL 1309 SITE 4235 TIME TAKEN 14/11/07/79 RELIEF LOW VEGETATION GRASS-SPARSE
LOCATION: LAT 45.523 (45 31' 22") LONG 103.079 (103 4' 44") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN AT DRAW BETWEEN 2 ROLLING HILLS, SAMPLE TAKEN OVER 37M INTERVAL STARTING AT NORTHWEST BEND IN STREAM:
1-60 GRASS, SOIL:

405912 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 25.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL 1309 SITE 4236 TIME TAKEN 15/11/07/79 RELIEF MODERATE VEGETATION GRASS-SPARSE
LOCATION: LAT 45.602 (45 36' 7") LONG 103.086 (103 5' 9") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 6.00 DEPTH(M) 1.00 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN AT EAST CURVING HORSESHOE POINT IN STREAM OVER 25M INTERVAL STARTING AT LARGE CLUSTER OF TREES ABOUT 3 MILES PARALLEL TO ROAD TO EAST:
1-68 STOCK USE STREAM:
1-78 MARY THYBO, 1 REVA, SOUTH DAKOTA 57651:

405913 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4237 TIME TAKEN 15/11/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-SPARSE
 LOCATION: LAT 45.600 (45 36' 0") LONG 103.084 (103 5' 2") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 35

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN .5KM FROM ROAD TOWARDS EAST, SAMPLE TAKEN AT EASTERN BRANCH OF STREAM BED NEAR DECIDUOUS GROUP
 OF TREES AT WHERE CURVE TURNS TOWARDS WEST FROM HORSESHOE BEND;
 1-60 STOCK USE;
 1-78 MARY THYBO & REVA, S.D. 57651;

405914 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4238 TIME TAKEN 09/11/07/79 RELIEF MODERATE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.588 (45 35' 16") LONG 103.086 (103 5' 9") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN WEST OF ROAD FOLLOWING TELEPHONE POLES WEST 1 MILE, SAMPLE TAKEN WHERE EAST AND WEST DRAINAGE
 BASINS COME TOGETHER AND FORM A U SHAPE;
 1-60 GRASS;
 1-78 MARY THYBO & REVA, S.D. 57651;

405915 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4239 TIME TAKEN 09/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.573 (45 34' 22") LONG 103.074 (103 0' 50") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 REVA, S.D. 7.5' TOPO, SAMPLE TAKEN AT STREAM THAT FLOWS 100M PARALLEL TO ROAD STARTING AT FENCE LINE OVER 25M INTERVAL;
 1-60 GRASS; CULVERT DOWNSTREAM FROM SITE;

405916 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4240 TIME TAKEN 12/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.603 (45 36' 10") LONG 103.007 (103 0' 25") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN AT STREAM BED WHICH RUNS PARALLEL TO FARM ROAD, SAMPLE TAKEN OVER 30M INTERVAL STARTING 10M WEST OF FENCE:
 1-60 GRASS CEMENT CULVERT DOWNSTREAM OF SAMPLE SITE:

405917 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4241 TIME TAKEN 09/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.590 (45 35'24") LONG 103.006 (103 0'21") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 1.00 LEVEL NORMAL
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK QDQR H25

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN AT STREAM WHICH CROSSES THE ROAD PERPENDICULARLY, SAMPLE TAKEN 30M WEST OF FENCE LINE OVER 25M INTERVAL:
 1-60 CULVERT DOWNSTREAM:

405918 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4242 TIME TAKEN 09/12/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.564 (45 33'50") LONG 103.013 (103 0'46") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 REVA 7.5 TOPO, SAMPLE TAKEN AT EAST SIDE OF U SHAPE IN DRAINAGE STREAM BED, BASIN, SAMPLE TAKEN OVER 25M INTERVAL STARTING AT EAST FORK OF STREAM:
 1-60 GRASS:

405919 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4243 TIME TAKEN 09/12/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.564 (45 33'50") LONG 103.015 (103 0'54") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-WH QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 REVA, 7.5' TOPO SAMPLE TAKEN AT WEST FORK OF DRAINAGE BASIN, STARTING AT WEST FORK OVER 25M INTERVAL STARTING AT POINT WHERE STREAM FORKS TO THE WEST:
 1-60 GRASS:

405920 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4244 TIME TAKEN 11/12/07/79 RELIEF LOW VEGETATION GRASS-SPARSE

LOCATION: LAT 45.540 (45 32' 24") LONG 103.247 (103 14' 49")
 CONTAMINANTS OTHER
 WATER: WIDTH(M) STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT DEPTH(M) LEVEL DRY
 SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN OFF HWY 20, SAMPLE TAKEN FROM STREAM BED WHICH MAKES A NORTHWARD CURVE TOWARD THE HWY. SAMPLE TAKEN OVER 25M INTERVAL STARTING 20M UPSTREAM FROM FENCE LINE:
 1-60 GRASS:

405921 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4245 TIME TAKEN 11/12/07/79 RELIEF GENTLE VEGETATION BRUSH-SPARSE
 LOCATION: LAT 45.544 (45 32' 38") LONG 103.247 (103 14' 49") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT DEPTH(M) LEVEL DRY
 SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN AT POINT WHERE STREAM DISSIPATES SAMPLE TAKEN NORTH OF HWY 20 OVER 25M INTERVAL STARTING AT ERODED BANKS:
 1-60 GRASS:

405922 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4246 TIME TAKEN 11/12/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.532 (45 31' 55") LONG 103.234 (103 14' 2") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT DEPTH(M) LEVEL DRY
 SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN UPSTREAM ON SOUTHWESTERN TRIBUTARY LEADING TO STOCK POND, SAMPLE TAKEN OVER 20M INTERVAL STARTING AT LARGE CLIFF SOUTH OF STOCK POND:
 1-60 AGRICULTURAL (STOCK USE), GRASS:

405923 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4247 TIME TAKEN 12/12/07/79 RELIEF GENTLE VEGETATION BRUSH-SPARSE
 LOCATION: LAT 45.532 (45 31' 55") LONG 103.214 (103 12' 50") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT DEPTH(M) LEVEL DRY
 SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM STREAM, SAMPLE TAKEN ON NORTH SIDE OF HWY 20, SAMPLE TAKEN OVER 30M INTERVAL

--- -- STARTING AT FENCE LINE AND WORKING UPSTREAM:
 --- -- I-60 CATTLE USE, CULVERT DOWNSTREAM:

--- -- 405925 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
 --- -- PHASE E MAP NL1309 SITE 4248 TIME TAKEN 11/19/07/79 RELIEF MODERATE VEGETATION CONIFER/DECIDUOUS-MODERATE
 --- -- LOCATION: LAT 45.580 (45 34'48") LONG 103.268 (103 16' 4") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 --- -- SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 --- -- BED MATERIAL SILT SAMPLE: COLOR L-GY-BN QDQR NONE
 --- -- SEDIMENT INFORMATION:
 --- -- SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

--- -- I-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM DRY STREAM BED STARTING AT POINT WHERE STREAM BRANCHES SOUTH FROM ATTERBURY
 --- -- CREEK, SAMPLE TAKEN OVER 50 METER INTERVAL STARTING AT TREES PINE & DECIDUOUS AND WORKING TAKING SAMPLE UPSTREAM:
 --- -- I-60 GRASS:

--- -- 405926 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
 --- -- PHASE E MAP NL1309 SITE 4249 TIME TAKEN 11/19/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE
 --- -- LOCATION: LAT 45.575 (45 34'30") LONG 103.248 (103 14'52") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 --- -- SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 --- -- BED MATERIAL SILT SAMPLE: COLOR D-BN-BK QDQR H2S
 --- -- SEDIMENT INFORMATION:
 --- -- SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

REMARKS:

--- -- I-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM NORTH FORKING BRANCH OF ATTERBURY CREEK SAMPLE TAKEN DOWNSTREAM FROM WHERE
 --- -- PINE TREES TURN INTO DECIDUOUS TREES, SAMPLE TAKEN OVER 70M INTERVAL MOVING WEST DOWNSTREAM:
 --- -- I-60 GRASS:

--- -- 405927 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
 --- -- PHASE E MAP NL1309 SITE 4250 TIME TAKEN 12/19/07/79 RELIEF MODERATE VEGETATION CONIFER/DECIDUOUS-MODERATE
 --- -- LOCATION: LAT 45.574 (45 34'26") LONG 103.247 (103 14'49") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 --- -- SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 --- -- BED MATERIAL SILT SAMPLE: COLOR D-BN-BK QDQR NONE
 --- -- SEDIMENT INFORMATION:
 --- -- SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 40

REMARKS:

--- -- I-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN IN CANYON WHERE ATTERBURY CREEK BRANCHES TOWARDS SOUTHWEST, SAMPLE TAKEN OVER 50M
 --- -- INTERVAL STARTING AT CLEARING BETWEEN DECIDUOUS AND PINE TREES:
 --- -- I-60 GRASS:

--- -- 405928 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
 --- -- PHASE E MAP NL1309 SITE 4251 TIME TAKEN 12/19/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE
 --- -- LOCATION: LAT 45.573 (45 34'22") LONG 103.251 (103 15' 3") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 --- -- WATER: WIDTH(M) DEPTH(M) LEVEL DRY

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 40

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN AT SEMI-DRY STREAM BED OVER 40M INTERVAL STARTING AT LARGE ELM TREE IN CENTER OF STREAM;
1-60 ORGANIC-GRASS, SOIL:

405929 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4252 TIME TAKEN 12/19/07/79 RELIEF GENTLE VEGETATION CONIFER/DECIDUOUS-MODERATE
LOCATION: LAT 45.581 (45 34' 51") LONG 103.234 (103 14' 2") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN LEVEL DRY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM SOUTH EASTWARD FORK IN STREAM, SAMPLE TAKEN AT STREAM COVERED BY BUSHES, SAMPLE TAKEN OVER 30M INTERVAL STARTING 100M UPSTREAM FROM FORK;
1-60 GRASS:

405930 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4253 TIME TAKEN 13/19/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
LOCATION: LAT 45.594 (45 35' 38") LONG 103.233 (103 13' 58") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN LEVEL DRY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN OVER 50M INTERVAL STARTING AT NORTH EAST FENCE LINE (WHICH CROSSES STREAM) WORKING TOWARDS UPSTREAM NORTHERN FORK;
1-60 GRASS:

405931 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4254 TIME TAKEN 13/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.593 (45 35' 34") LONG 103.234 (103 14' 2") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN LEVEL DRY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 05

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO SAMPLE TAKEN OVER 50M INTERVAL STARTING AT SOUTH FENCE LINE WHICH CROSSES STREAM WORKING DOWNSTREAM FROM SOUTH FORK TOWARD S POINT WHERE FORK MEETS;
1-60 GRASS:

405932 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER CALM-CLEAR
 PHASE E MAP NL 1309 SITE 4256 TIME TAKEN 13/19/07/79 RELIEF GENTLE VEGETATION BRUSH-DENSE
 LOCATION: LAT 45.588 (45 35' 16") LONG 103.222 (103 13' 19") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 BATTLESHIP ROCK 7.5' TOPO SAMPLE TAKEN AT NORTHERN FORK OF STREAM IN MICH TO BRUSH (BERRIES WILD STRAWBERRY'S) SAMPLE TAKEN OVER 25 M INTERVAL STARTING AT FORK IN STREAM AND WORKING SAMPLE UPSTREAM;
 1-60 STOCK USE FOR H2O;

405933 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4257 TIME TAKEN 14/19/07/79 RELIEF GENTLE VEGETATION BRUSH-DENSE
 LOCATION: LAT 45.586 (45 35' 9") LONG 103.222 (103 13' 19") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 BATTLESHIP ROCK 7.5' TOPO SAMPLE TAKEN AT SOUTHERN FORK IN STREAM, SAMPLE TAKEN OVER 50 M INTERVAL STARTING AT POINT WHERE CREEK FORKS TO THE SOUTH COLLECTING SAMPLE WHILE WORKING UPSTREAM;
 1-60 STOCK USE H2O;

405934 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4258 TIME TAKEN 11/20/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.603 (45 36' 10") LONG 103.246 (103 14' 45") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM DRY STREAM "SAND CREEK" OVER 50M INTERVAL STARTING AT TWIN ELM TREES IN CENTER OF CREEK BED;
 1-60 GRASS STOCK USE WHEN WET;

405935 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4259 TIME TAKEN 10/20/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.581 (45 34' 51") LONG 103.243 (103 14' 34") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN 30M UPSTREAM WERE PATH CROSSES CREEK BED OVER 40M INTERVAL, SAMPLE TAKEN AT
 ATTERBURY CREEK:
 1-60 GRASS, CATTLE USE WHEN WET:

405936 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4260 TIME TAKEN 12/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.599 (45 35'56") LONG 103.265 (103 15'54") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.10 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-WH ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 SHEEP PEN DRAW 7.5' TOPO SAMPLE TAKEN FROM CREEK UPSTREAM FROM LARGE STOCKPOND SAMPLE TAKEN OVER 29M INTERVAL STARTING AT
 SMALL BEND TOWARDS SOUTH IN DRAINAGE PATTERN:
 1-60 STOCK USE:

405937 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4261 TIME TAKEN 13/23/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.574 (45 34'26") LONG 103.059 (103 3'32") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM STREAM .7 MILES EAST OF ROAD, SAMPLE TAKEN OVER 40M INTERVAL STARTING AT FENCE LINE AND
 MOVING NORTH:
 1-60 AGRICULTURAL CROPS (HAY AND CORN) UPSTREAM FROM STREAM, GRASS:

405938 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4262 TIME TAKEN 13/23/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.530 (45 31'48") LONG 103.117 (103 7' 1") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.10 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM STREAM RUNNING NE OF ABANDONED FARM HOUSE, SAMPLE TAKEN OVER 30M INTERVAL STARTING AT
 LARGE CLUSTER OF TREES TO THE NE OF HOUSE:
 1-60 STOCK:

405939 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4263 TIME TAKEN 12/23/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE

LOCATION: LAT 45.534 (45 32' 2") LONG 103.084 (103 5' 2") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM DRY STREAM BED SW OF FARM HOUSE, SAMPLE TAKEN FROM STREAM JUST BEFORE IT EMPTIES INTO SECOND SE FLOWING STREAM, SAMPLE TAKEN NEAR SMALL CLIFF OVER 40M INTERVAL:
 1-60 STOCK USE, PLANTS OVERGROWN INTO STREAM:

405940 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4264 TIME TAKEN 12/23/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.534 (45 32' 2") LONG 103.082 (103 4' 55") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM DRY STREAM BED SOUTH WEST OF FARM HOUSE, SAMPLE TAKEN AT FIRST STREAM SW OF HOUSE AFTER CATTLE GATE, SAMPLE TAKEN OVER 35M INTERVAL STARTING AT LARGE BRUSH PATCH:
 1-60 GARBAGE DUMP UPSTREAM FROM SAMPLE SITE ON CLIFF, STOCK IN STREAM:

405941 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4265 TIME TAKEN 12/23/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.586 (45 35' 9") LONG 103.179 (103 10' 44") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TMAP RESULTS REG NO ,RELEASED 800125 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO SAMPLE TAKEN FROM DRY STREAM BED AT WESTERN TRIBUTARY OF FORK OVER 35M INTERVAL STARTING AT SINGLE ELM TREE:
 1-60 PLANTS GROWN OVER:

405942 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4266 TIME TAKEN 12/23/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.586 (45 35' 9") LONG 103.177 (103 10' 37") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO SAMPLE TAKEN FROM DRY STREAM BED AT EASTERN TRIBUTARY OF FORK OVER 30M INTERVAL STARTING AT

EASTERN POINT OF GROVE OF ELM TREES:
1-60 GRASSED OVER:

405943 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4267 TIME TAKEN 16/23/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.598 (45 35'52") LONG 103.169 (103 10' 8") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL PEBBLE SAMPLE: COLOR L-BK-BN QDOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM STREAM BED IN LARGE DRAW, SAMPLE TAKEN OVER 30M INTERVAL STARTING AT ELM TREE
 IN CENTER OF BED:
 1-60 ROCKS, STOCK USE:

405944 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4268 TIME TAKEN 12/27/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.595 (45 35'42") LONG 103.052 (103 3' 7") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN QDOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 35

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN AT STREAM BED EAST OF STOCK BOND, SAMPLE TAKEN EAST 50M OF FENCE LINE OVER 25M INTERVAL
 STARTING 60M FROM FORK IN BAR H CREEK:
 1-60 STOCK USE WHEN WET:
 1-78 MARY THYBO, BAR H RANCH & REVA, S.D. 57851:

405945 TYPE SPRING WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 27.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4491 TIME TAKEN 10/23/07/79 RELIEF GENTLE VEGETATION CONIFER/DECIDUOUS-MODERATE
 LOCATION: LAT 45.549 (45 32'56") LONG 103.170 (103 10' 12") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TOH RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR D-GY-BN QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 820 DISSOLVED OXYGEN(PPM) 8.0
 WATER TEMP(C) + 13.9 VISIBILITY(M) 1.00 PH 6.6 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 468 F ALKALINITY(PPM) 25 M ALKALINITY(PPM) 460
 APPEARANCE MURKY DISCHARGE(L/M)
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 BATTLESHIP ROCK, 7.5' QUAD., SAMPLE TAKEN DIRECTLY FROM SPRING BY DIGGING SHALLOW HOLE IN GROUND, PIPE AND STOCK TANK ARE BROKEN, PUCKEROO SPRING;
1-60 SAMPLE TAKEN OFF GROUND;

405946 TYPE SPRING WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 28.5 WEATHER CALM-PART CLOUDY
PHASE E MAP NL1309 SITE 4269 TIME TAKEN 11/23/07/79 RELIEF GENTLE VEGETATION CONIFER/DECIDUOUS-MODERATE
LOCATION: LAT 45.541(45 32'27") LONG 103.177(103 10'37") CONTAMINANTS NONE
SURFACE GEOL UNIT TQW RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR - -CL -ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 800 DISSOLVED OXYGEN (PPH) 7.5
WATER TEMP(C) + 19.9 VISIBILITY (M) CLEAR PH 8.2 LO-ION PAPER
TOTAL ALKALINITY (PPH) 350 P ALKALINITY (PPH) 24 M ALKALINITY (PPH) 350
APPEARANCE CLEAR DISCHARGE (L/M) 0.50 SOURCE GEOL. INFERENCE
PRODUCING HORIZON TQW CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION PLASTIC
METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 BATTLESHIP ROCK, 7.5' QUAD., SAMPLE TAKEN FROM PIPE TO STOCK TANK, FROM RED CROSS SPRING;

405991 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 18.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4001 TIME TAKEN 10/06/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.492(45 29'31") LONG 103.095(103 5'42") CONTAMINANTS OTHER STREAM FLOW (M/SEC)
SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
BED MATERIAL SILT SAMPLE: COLOR D-BN-BK -ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN 20M UPSTREAM OF PAVED ROAD BEGINNING AT BARBED WIRE FENCE AND OVER A 24M INTERVAL;
1-60 GRASS IN STREAM BED AND AGRICULTURE IN AREA;

405992 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 19.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4002 TIME TAKEN 10/06/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.489(45 29'20") LONG 103.095(103 5'42") CONTAMINANTS OTHER STREAM FLOW (M/SEC)
SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN -ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN 25M UPSTREAM OF PAVED ROAD BEGINNING 5M FROM BARBED WIRE FENCE AND OVER A 25M INTERVAL;
1-60 GRASS IN STREAM BED AND TRAMPLED BY STOCK;

405993 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +20.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4003 TIME TAKEN 11/06/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.483(45 28'58") LONG 103.081(103 4'51") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL LOW
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN OVER A 22M INTERVAL, 200M UPSTREAM OF FORK TN STREAM;
 1-60 STOCK HEAVILY TRAMPLED AREA AND GRASS IN BED FURTHER UPSTREAM;

405994 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +20.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4004 TIME TAKEN 11/06/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.479(45 28'44") LONG 103.081(103 4'51") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 2.00 DEPTH(M) 0.40 LEVEL LOW
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN OVER A 25M INTERVAL BEGGINING 100M UPSTREAM OF STOCK DAM;
 1-60 STOCK HEAVILY TRAMPLED AREA AND STOCK DAM NEARBY, ALSO GRASS IN STREAM CLOSE UPSTREAM;

405996 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +20.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4005 TIME TAKEN 12/06/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.472(45 28'19") LONG 103.098(103 5'52") CONTAMINANTS OTHER STREAM FLOW(M/SEC) 0.50
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 2.00 DEPTH(M) 1.00 LEVEL LOW
 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN 25M UPSTREAM OF SHARP STREAM MEANDER AND OVER A 22 M INTERVAL;
 1-60 STOCK IN AREA HEAVILY TRAMPLED;

405997 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +20.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4006 TIME TAKEN 12/06/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.465(45 27'54") LONG 103.084(103 5' 2") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 2.00 DEPTH(M) 1.50 LEVEL NORMAL
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN WHERE STREAM MEANDERS SHARPLY NORTH AND OVER A 25M INTERVAL;
 1-60 CATTLE IN AREA;

405998 TYPE WELL WATER REPLICATE SAMPLER PGL AIR TEMP(C) +23.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4007 TIME TAKEN 10/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.496(45 29'45") LONG 103.106(103 6'21") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1370 DISSOLVED OXYGEN (PPH) 1.3
 WATER TEMP(C) +13.5 VISIBILITY(M) CLEAR PH 6.4 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 380 P ALKALINITY (PPH) 25 M ALKALINITY (PPH) 390
 APPEARANCE CLEAR DISCHARGE (L/M) 40.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK BEFORE USE ALL TYPES PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON (M) 33 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH (M) 33 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN FROM HYDRANT NEXT TO HOUSE LOCATED DIRECTLY ABOVE WELL;
 1-60 SUBMERSTIBLE PUMP;
 1-78 DAVE SMITH & REVA, S.D. 57651;

405999 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +28.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4008 TIME TAKEN 12/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.477(45 28'37") LONG 103.113(103 6'46") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 WATER: WIDTH(M) 3.00 DEPTH(M) 0.50 LEVEL LOW
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN QDQR H25

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN 100M UPSTREAM OF FORK AND OVER A 20M INTERVAL;
 1-60 CATTLE TRAMPLED STREAM BED AND GRASS GROWING IN STREAM;

406000 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +28.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4009 TIME TAKEN 12/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.475(45 28'30") LONG 103.111(103 6'39") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN 75M UPSTREAM OF FORK AND OVER A 25M INTERVAL;
 1-60 TRAMPLED BED BY CATTLE AND GRASS GROWING IN STREAM BED;

406001 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4010 TIME TAKEN 13/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE

LOCATION: LAT 45.465 (45 27' 54") LONG 103.108 (103 6' 28") CONTAMINANTS AGRICULTURA
 WATER: WIDTH(M) 2.00 DEPTH(M) 1.00 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN 50M DOWNSTREAM OF POND AND COVERING A 25M INTERVAL:

406002 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4011 TIME TAKEN 14/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.457 (45 27' 25") LONG 103.091 (103 5' 27") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 4.00 DEPTH(M) 0.30 LEVEL POOL S
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN 50M UPSTREAM FROM GRAVEL ROAD WHERE STREAM MEANDERS WEST AND OVER A 20M INTERVAL;
 1-60 WHITE PRECIPITATE IN AREAS WHERE STREAM IS DRIED, ALSO, HEAVILY TRAMPLED AREA BY CATTLE;

406003 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4012 TIME TAKEN 14/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.457 (45 27' 25") LONG 103.069 (103 4' 8") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 4.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 TOPO, SAMPLE TAKEN 20M UPSTREAM OF GRAVEL ROAD BEGINNING WHERE STREAM MEANDERS EAST AND OVER A 20M INTERVAL;
 1-60 OLD MUFFLER SITTING IN STREAM AND GRASS GROWING QUITE HEAVILY UPSTREAM;

406004 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4013 TIME TAKEN 15/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.454 (45 27' 14") LONG 103.044 (103 2' 38") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 5.00 DEPTH(M) 0.30 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BN-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 100 SOUTH OF GRAVEL ROAD WHERE STREAM MEANDERS SOUTHWARD AND OVER A 20M INTERVAL;
 1-60 LARGE NUMBER OF CATTLE IN AREA;

406005 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4014 TIME TAKEN 15/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.465 (45 27' 54") LONG 103.044 (103 2' 38") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.30 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BN-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 25

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN HALF MILE NORTH OF BEND IN GRAVEL ROAD BEGINNING WHERE STREAM MEANDERS EAST AND OVER A 20M INTERVAL;

406006 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4015 TIME TAKEN 16/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.454 (45 27' 14") LONG 103.021 (103 1' 15") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 4.00 DEPTH(M) 0.50 LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN QDQR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 30M SOUTH OF GRAVEL ROAD BEGINNING WHERE STREAM MEANDERS SOUTH AND OVER A 21M INTERVAL;
 1-60 GRASS GROWING IN STREAM;

406007 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4016 TIME TAKEN 16/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.451 (45 27' 3") LONG 103.020 (103 1' 12") CONTAMINANTS NONE STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 4.00 DEPTH(M) 0.50 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BK QDQR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 200M SOUTH OF GRAVEL ROAD BEGINNING AT LARGE TREE ON BANK AND HEADING DOWNSTREAM OVER A 20M INTERVAL;

406008 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4017 TIME TAKEN 17/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.457 (45 27' 25") LONG 103.003 (103 0' 10") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 4.00 DEPTH(M) 0.50 LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN JUST BEFORE TREE GROVE AND OVER A 20M INTERVAL HEADING TOWARDS GRAVEL ROAD;

1-60 GRASS IN BED:

406009 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL 1309 SITE 4018 TIME TAKEN 12/09/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.458 (45 27' 28") LONG 103.002 (103 0' 7") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 80M NORTH WEST OF CORRAL AND SHACK BEGINNING DUE WEST OF ROCK OUTCROPS ON HILL AND OVER A 25M INTERVAL
 1-60 GRASS IN BED:

406010 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4019 TIME TAKEN 12/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.486 (45 29' 9") LONG 103.008 (103 0' 28") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 4.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 40M DOWNSTREAM OF STOCK DAM BEGINNING AT LARGE BUSH GROVE AND CONTINUING OVER A 20M INTERVAL:

406011 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4020 TIME TAKEN 12/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.485 (45 29' 6") LONG 103.013 (103 0' 46") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 4.00 DEPTH(M) 0.30 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 40M UPSTREAM OF POND BEGINNING AT SHARP MEANDER BEND AND OVER A 25M INTERVAL
 1-60 GRASS GROWING IN STREAM BED AND ALSO COW MANURE:

406012 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4021 TIME TAKEN 12/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.486 (45 29' 9") LONG 103.022 (103 1' 19") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 1 HALF MILE DUE NORTH OF OLD HOUSE WHERE STREAM MEANDERS SHARPLY NORTH AND OVER A 20M INTERVAL;
1-60 GRASS GROWING IN BED ACCOMPANIED BY COW MANURE:

406013 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4022 TIME TAKEN 13/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.436 (45 26' 9") LONG 103.014 (103 0'50") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 4.00 DEPTH(M) 0.50 LEVEL LOW
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 30 UPSTREAM FROM CONFLUENCE WITH RABBIT CREEK AND OVER A 20M INTERVAL HEADING UPSTREAM;
1-60 COW MANURE IN STREAM BED FARTHER UP IN DRY PORTIONS OF STREAM:

406014 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4023 TIME TAKEN 14/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.429 (45 25'44") LONG 103.013 (103 0'46") CONTAMINANTS AGRICULTURAL STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 2.00 DEPTH(M) 0.30 LEVEL LOW
SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 150M DUE EAST OF WINDMILL IN LARGE TREE GROVE BEGINNING WHERE STREAM MEANDERS EAST AND OVER A 22M INTERVAL:

406015 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4024 TIME TAKEN 15/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.430 (45 25'48") LONG 103.043 (103 2'34") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 0.50 DEPTH(M) 0.20 LEVEL LOW
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN AT FENCE AND CONTINUING UPSTREAM OVER A 20M INTERVAL;
1-60 HEAVILY TRAMPLED AREA BY HERD OF CATTLE AND WHITE PRECIPITATE ALSO IN AREA:

406016 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4025 TIME TAKEN 16/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE

LOCATION: LAT 45.433 (45 25' 58") LONG 103.079 (103 4' 44") CONTAMINANTS OTHER
 WATER: WIDTH(M) 2.00 STREAM FLOW(M/SEC) STAG
 DEPTH(M) 0.40 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN DIRECTLY SOUTH OF HILL (TOPOGRAPHIC HIGH) AND OVER A 21M INTERVAL HEADING WEST;
 1-60 CATTLE HERDS IN AREA.

406017 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4026 TIME TAKEN 16/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.436 (45 26' 9") LONG 103.078 (103 4' 40") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.20 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 75M SOUTH EAST OF WINDMILL OVER A 21M INTERVAL HEADING UPSTREAM;
 1-60 CATTLE IN AREA.

406018 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4027 TIME TAKEN 16/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.436 (45 26' 9") LONG 103.075 (103 4' 30") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.20 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 48M UPSTREAM OF STREAM FORK AND OVER A 20M INTERVAL HEADING NORTH;
 1-60 CATTLE IN AREA.

406020 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4028 TIME TAKEN 17/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.435 (45 26' 6") LONG 103.095 (103 5' 42") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN JUST BEYOND TREE GROVE WHERE STREAM MEANDERS WESTWARD AND OVER A 20M INTERVAL
 HEADING UPSTREAM;
 1-60 CATTLE HERD IN AREA.

406021 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4029 TIME TAKEN 15/10/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.439 (45 26'20") LONG 103.116 (103 6'57") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.40 LEVEL LOW
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 20M UPSTREAM OF PAVED ROAD OVER A 2M INTERVAL:

406022 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4030 TIME TAKEN 15/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.489 (45 29'20") LONG 103.055 (103 3'18") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN ALONG A 2M INTERVAL BEGINNING AT A SHARP STREAM MEANDER NORTH WHERE THE VEGETATION IN THE BED THICKENS;
 1-60 GRASS IN STREAM BED AND AGRICULTURE:

406023 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4031 TIME TAKEN 15/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.478 (45 28'40") LONG 103.066 (103 3'57") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 250M UPSTREAM OF FORK AND OVER A 20M INTERVAL;
 1-60 STREAM BED HEAVILY TRAMPLED BY CATTLE AND GRASS GROWING IN BED ALSO;

406024 TYPE WELL WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-PJ CLDY
 PHASE E MAP NL1309 SITE 4032 TIME TAKEN 16/11/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.492 (45 29'31") LONG 103.117 (103 7' 1") CONTAMINANTS OTHER SAMPLE: COLOR -CL ODOR NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1150 DISSOLVED OXYGEN(PPM) 3.9
 WATER TEMP(C) + 13.8 VISIBILITY(M) CLEAR PH 8.6 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 530 P-ALKALINITY(PPM) <5 M-ALKALINITY(PPM) 530
 APPEARANCE CLEAR DISCHARGE(L/M) 40.00
 PRODUCING HORIZON KGMH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	UNKNOWN	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	28	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	105	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	105	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN FROM HYDRANT NEXT TO HOUSE 25M FROM WELL HEAD;
 1-60 SUBMERSIBLE PUMP;
 1-78 JOE VERHULST & REVA S.D. 57651;

406025	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER PGL	AIR TEMP(C)	+ 30.0	WEATHER	CALM-PT CLDY
	PHASE	E	MAP NL1309	SITE 4033	TIME TAKEN	10/12/07/79	RELIEF	LOW
	LOCATION:	LAT 45.420(45 25' 12")	LONG 103.028(103 1' 40")		CONTAMINANTS	OTHER	VEGETATION	GRASS-MODERATE
					WATER: WIDTH(M)		DEPTH(M)	LEVEL DRY
	SURFACE GEOL UNIT	TPFL	RESULTS REQ	YES	RELEASED	800125	BED MATERIAL	CLAY
							SAMPLE: COLOR	M-GY-BN
								QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	7	ORGANIC MATERIAL(%)	10
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REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN WHERE STREAM MEANDERS EAST BEFORE TURNING NORTH AND OVER A 20M INTERVAL;
 1-60 COW MANURE AND GRASS IN STREAM BED;
 1-78 VERNON HAMMEN & SORUM, S.D. 57654;

406026	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER PGL	AIR TEMP(C)	+ 30.0	WEATHER	CALM-CLEAR
	PHASE	E	MAP NL1309	SITE 4034	TIME TAKEN	11/12/07/79	RELIEF	LOW
	LOCATION:	LAT 45.419(45 25' 8")	LONG 103.024(103 1' 26")		CONTAMINANTS	OTHER	VEGETATION	GRASS-MODERATE
					WATER: WIDTH(M)		DEPTH(M)	LEVEL DRY
	SURFACE GEOL UNIT	TPFL	RESULTS REQ	YES	RELEASED	800125	BED MATERIAL	CLAY
							SAMPLE: COLOR	M-GY-BN
								QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	8	ORGANIC MATERIAL(%)	10
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REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 250M DUE WEST OF STOCK WELL AND OVER A 24M INTERVAL;
 1-60 COW MANURE AND GRASS GROWING IN STREAM BED;
 1-78 VERNON HAMMEN & SORUM, S.D. 57654;

406027	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER PGL	AIR TEMP(C)	+ 30.0	WEATHER	LT WIND-CLEAR
	PHASE	E	MAP NL1309	SITE 4035	TIME TAKEN	13/12/07/79	RELIEF	LOW
	LOCATION:	LAT 45.392(45 23' 31")	LONG 103.009(103 0' 32")		CONTAMINANTS	OTHER	VEGETATION	GRASS-MODERATE
					WATER: WIDTH(M)		DEPTH(M)	LEVEL DRY
	SURFACE GEOL UNIT	TPFL	RESULTS REQ	YES	RELEASED	800125	BED MATERIAL	CLAY
							SAMPLE: COLOR	D-GY-BN
								QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION	DRY	SAMPLE TREATMENT	NONE	NUMBER OF GRABS	7	ORGANIC MATERIAL(%)	15
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REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN 250M DOWNSTREAM OF STOCK DAM OVER A 20M INTERVAL;
 1-60 GRASS IN STREAM ALONG WITH COW MANURE, STOCK DAM JUST UPSTREAM;

1-78 VERNON WAMMEN & SORUM, S.D. 57654:

406028 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4036 TIME TAKEN 13/12/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.388 (45 23' 16") LONG 103.017 (103 0' 39") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 4.00 DEPTH(M) 0.30 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 21M INTERVAL JUST BEFORE STREAM MEANDERS SHARPLY SOUTH;
 1-60 GRASS GROWING IN STREAM AND COW MANURE IN BED;
 1-78 VERNON WAMMEN & SORUM, S.D. 57654;

406029 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4037 TIME TAKEN 13/12/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.390 (45 23' 24") LONG 103.026 (103 1' 33") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 4.00 DEPTH(M) 0.30 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 15M UPSTREAM FROM FORK;
 1-60 GRASS AND COW MANURE IN STREAM BED;
 1-78 VERNON WAMMEN & SORUM, S.D. 57654;

406030 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4038 TIME TAKEN 13/12/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.389 (45 23' 20") LONG 103.025 (103 1' 30") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 16M INTERVAL BEGINNING 15M UPSTREAM OF FORK;
 1-60 GRASS AND MANURE IN STREAM BED;
 1-78 VERNON WAMMEN & SORUM, S.D. 57654;

406031 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 23.0 WEATHER OVERCAST
 PHASE E MAP NL1309 SITE 4109 TIME TAKEN 14/06/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.315 (45 18' 54") LONG 103.156 (103 9' 21") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.20 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 200M FROM HIGHWAY OVER 24M INTERVAL, STARTING 30M UPSTREAM FROM FORK;
1-60 CATTLE

406032 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.0 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4110 TIME TAKEN 11/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.396 (45 23'45") LONG 103.167 (103 10' 1") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 5.00 DEPTH(M) 2.00 LEVEL POOLS
SURFACE GEOL UNIT TPA RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 J. B. HILL 7.5' MAP, SAMPLE TAKEN 100M UPSTREAM OF OLD HIGHWAY, OVER 25M INTERVAL, STARTING 50M WEST OF LARGE BUSH ON
NORTH BANK;
1-60 CATTLE

406033 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4111 TIME TAKEN 11/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.396 (45 23'45") LONG 103.171 (103 10' 15") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) --
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 J. B. HILL 7.5' MAP, SAMPLE TAKEN 30M UPSTREAM FROM FORK, OVER 15M INTERVAL, STARTING 8M NORTH OF GROUP OF TREES;
1-60 CATTLE

406034 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4112 TIME TAKEN 12/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.397 (45 23'49") LONG 103.182 (103 10' 55") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) --
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-RD-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 J. B. HILL 7.5' MAP, SAMPLE TAKEN 20M UPSTREAM FROM FORK OVER 20M INTERVAL, STARTING 2M SOUTH OF TREE ON EAST SIDE OF FENCE;
1-60 CATTLE, SOIL

406035 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4113 TIME TAKEN 12/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE

LOCATION: LAT 45.398 (45 23' 52") LONG 103.182 (103 10' 55") CONTAMINANTS AGRICULTURA
 WATER: WIDTH(M) STREAM FLOW(M/SEC) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-RD-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 20M UPSTREAM FROM FORK, OVER 25M INTERVAL, STARTING 20M NORTH OF FENCE:
 1-60 CATTLE SOIL:

406036 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4114 TIME TAKEN 13/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.403 (45 24' 10") LONG 103.187 (103 11' 13") CONTAMINANTS AGRICULTURA
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 530 DISSOLVED OXYGEN(PPM) 10.2
 WATER TEMP(C) + 15.7 VISIBILITY(M) CLEAR PH 7.5 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 287 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 293
 APPEARANCE CLEAR DISCHARGE(L/M) 1.00
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING PLASTIC PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J. B. HILL, 7.5' QUAD., SAMPLE TAKEN FROM PIPE TO STOCK TANK, ANDY SPRING, LOCATED S.W. OF J. B. ROAD:

406037 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.8 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4115 TIME TAKEN 13/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.414 (45 24' 50") LONG 103.176 (103 10' 33") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 3.00 DEPTH(M) 1.00 LEVEL POOLS
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 30M UPSTREAM FROM FORK, OVER 20M INTERVAL, STARTING AT THE BEND WHICH IS CONCAVE TO THE
 WEST:
 1-60 CATTLE:

406038 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.8 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4116 TIME TAKEN 13/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.415 (45 24' 54") LONG 103.177 (103 10' 37") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL POOLS
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 25M UPSTREAM OF FORK, OVER 20M INTERVAL, STARTING 35M WEST OF FENCE;
1-60 CATTLE;

406039 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4117 TIME TAKEN 14/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.415 (45 24' 54") LONG 103.200 (103 12' 0") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPA RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 71 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 10M UPSTREAM FROM POND, OVER 24M INTERVAL, STARTING 8M NORTH OF DEAD TREE;
1-60 CATTLE;
1-70 NO POOLS BUT GROUND WAS WET;

406040 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4118 TIME TAKEN 15/09/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE
LOCATION: LAT 45.408 (45 24' 28") LONG 103.214 (103 12' 50") CONTAMINANTS NONE SAMPLE: COLOR -CL ODOR NONE
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 650 DISSOLVED OXYGEN(PPM) 12.3
WATER TEMP(C) + 16.3 VISIBILITY(M) CLEAR PH 8.3 LO-ION PAPER
TOTAL ALKALINITY(PPM) 342 P ALKALINITY(PPM) 10 M ALKALINITY(PPM) 360
APPEARANCE CLEAR DISCHARGE(L/H) 1.50
PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN FROM PIPE, SPRING LOCATED AT FORK IN STREAMS, ROAD DRAW SPRING NUMBER 2;

406041 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4119 TIME TAKEN 16/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.389 (45 23' 20") LONG 103.202 (103 12' 7") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 8.00 DEPTH(M) 0.10 LEVEL LOW
SURFACE GEOL UNIT TPA RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 50

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 10M UPSTREAM FROM FORK BY SPRING, OVER 23M INTERVAL, STARTING 6M NORTH OF TREE CLOSEST TO FORK:

1-60 GRASS IN STREAM CHANNEL:

406042	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	DXH	AIR TEMP(C)	+ 26.0	WEATHER	LT WIND-PT CLDY
	PHASE	E	MAP NL1309	SITE	4120	TIME TAKEN	16/09/07/79	RELIEF	MODERATE
	LOCATION:	LAT 45.388 (45 23' 16")	LONG	103.200 (103 12' 0")		CONTAMINANTS	OTHER	VEGETATION	GRASS-MODERATE
						WATER: WIDTH(M)	3.00	STREAM FLOW(M/SEC)	NONE
								DEPTH(M)	0.05
									LEVEL LOW
	SURFACE GEOL UNIT	TQH	RESULTS REQ NO		RELEASED	800125		BED MATERIAL	SILT
								SAMPLE: COLOR	D-BK-BN
									QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 75M UPSTREAM FROM FORK, OVER 17M INTERVAL, STARTING WHERE STREAM BENDS FROM WEST TO SOUTH UPSTREAM:

1-60 GRASS IN STREAM CHANNEL:

406043	TYPE	SPRING WATER	REPLICATE	SAMPLER	DXH	AIR TEMP(C)	+ 25.5	WEATHER	LT WIND-PT CLDY
	PHASE	E	MAP NL1309	SITE	4121	TIME TAKEN	18/09/07/79	RELIEF	MODERATE
	LOCATION:	LAT 45.401 (45 24' 3")	LONG	103.203 (103 12' 10")		CONTAMINANTS	AGRICULTURA	VEGETATION	DECIDUOUS-MODERATE
	SURFACE GEOL UNIT	TOW	RESULTS REQ NO		RELEASED	800125		SAMPLE: COLOR	U-WH-GY
									ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	780	DISSOLVED OXYGEN(PPM)	10.4
WATER TEMP(C)	+ 19.1	VISIBILITY(M)	1.00	PH	8.6
TOTAL ALKALINITY(PPM)	400	P ALKALINITY(PPM)	20	M ALKALINITY(PPM)	396
APPEARANCE	MURKY	DISCHARGE(L/H)	6.00		
PRODUCING HORIZON	TOW	CONFIDENCE	POSSIBLE	SOURCE	GEOL INFERENCE

WELL INFORMATION:

TYPE		POWER CLASSIFICATION		CASING		PIPE COMPOSITION	
METERS FROM HEAD		WITH RESPECT TO PRESSURE TANK		USE		PUMPING FREQUENCY	
DEPTH TO PROD HORIZON(M)		CONFIDENCE OF PRODUCING DEPTH		SOURCE OF PRODUCING INFORMATION			
WELL DEPTH(M)		CONFIDENCE OF WELL DEPTH		SOURCE OF DEPTH INFORMATION			

REMARKS:

1-38 J B HILL 7.5' MAP, J B SPRING, SAMPLE TAKEN 10M DOWNSTREAM FROM STREAM SOURCE, 5M SE OF SANDSTONE BOULDER:

1-60 CATTLE:

406044	TYPE	WELL WATER	REPLICATE	SAMPLER	DXH	AIR TEMP(C)	+ 31.0	WEATHER	-PT CLDY
	PHASE	E	MAP NL1309	SITE	4122	TIME TAKEN	13/10/07/79	RELIEF	GENTLE
	LOCATION:	LAT 45.420 (45 25' 12")	LONG	103.159 (103 9' 32")		CONTAMINANTS	AGRICULTURA	VEGETATION	GRASS-MODERATE
	SURFACE GEOL UNIT	TPFL	RESULTS REQ YES		RELEASED	800125		SAMPLE: COLOR	-CL
									ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	150	DISSOLVED OXYGEN(PPM)	3.1
WATER TEMP(C)	+ 15.5	VISIBILITY(M)	CLEAR	PH	9.0
TOTAL ALKALINITY(PPM)	520	P ALKALINITY(PPM)	44	M ALKALINITY(PPM)	498
APPEARANCE	CLEAR	DISCHARGE(L/H)	30.00		

--- -- PRODUCING HORIZON --- -- KGMH --- -- CONFIDENCE --- -- POSSIBLE --- -- SOURCE --- -- GEOL. INFERENCE --- --

WELL INFORMATION:

--- -- TYPE --- -- DRILLED --- -- POWER CLASSIFICATION --- -- ELECTRIC --- -- CASING --- -- STEEL --- -- PIPE COMPOSITION --- -- GALVANIZED --- --
 --- -- METERS FROM HEAD --- -- 250 --- -- WITH RESPECT TO PRESSURE TANK --- -- AFTER --- -- USE --- -- ALL TYPES --- -- PUMPING FREQUENCY --- -- FREQUENT --- --
 --- -- DEPTH TO PROD HORIZON(M) --- -- 150 --- -- CONFIDENCE OF PRODUCING DEPTH --- -- POSSIBLE --- -- SOURCE OF PRODUCING INFORMATION --- -- GEOL. INFERENCE --- --
 --- -- WELL DEPTH(M) --- -- 150 --- -- CONFIDENCE OF WELL DEPTH --- -- PROBABLE --- -- SOURCE OF DEPTH INFORMATION --- -- OWNER --- --

REMARKS:

--- -- 1-38 J B HILL 7.5' MAP, SAMPLE TAKEN HYDRANT LOCATED 10M EAST OF TRAILER HOUSE AND 250M WEST OF WELL, WELL LOCATED BESIDE BINS;
 --- -- 1-60 CATTLE;
 --- -- 1-78 MAURICE HAMILTON & SORUM, S.D. 57654;

406045 TYPE WELL WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 31.0 WEATHER -PT CLDY
 PHASE E MAP NL 1309 SITE 4123 TIME TAKEN 13/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.422(45 25' 19") LONG 103.162(103 9' 43") CONTAMINANTS OTHER SAMPLE: COLOR - -CL ODOR NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125

GENERAL WATER INFORMATION:

--- -- TREATMENT NONE --- -- CONDUCTIVITY(MICROMHOS/CM) --- -- 2980 --- -- DISSOLVED OXYGEN(PPM) --- -- 9.1 --- --
 --- -- WATER TEMP(C) --- -- + 20.4 --- -- VISIBILITY(M) --- -- CLEAR --- -- PH --- -- 7.8 --- -- LO-ION PAPER --- --
 --- -- TOTAL ALKALINITY(PPM) --- -- 360 --- -- P ALKALINITY(PPM) --- -- <5 --- -- M ALKALINITY(PPM) --- -- 370 --- --
 --- -- APPEARANCE --- -- CLEAR --- -- DISCHARGE(L/M) --- -- 0.00 --- --
 --- -- PRODUCING HORIZON --- -- KGMH --- -- CONFIDENCE --- -- POSSIBLE --- -- SOURCE --- -- GEOL. INFERENCE --- --

WELL INFORMATION:

--- -- TYPE --- -- DRILLED --- -- POWER CLASSIFICATION --- -- WIND --- -- CASING --- -- GALVANIZED --- -- PIPE COMPOSITION --- -- GALVANIZED --- --
 --- -- METERS FROM HEAD --- -- TNK --- -- WITH RESPECT TO PRESSURE TANK --- -- NONE --- -- USE --- -- STOCK --- -- PUMPING FREQUENCY --- -- INFREQUENT --- --
 --- -- DEPTH TO PROD HORIZON(M) --- -- 54 --- -- CONFIDENCE OF PRODUCING DEPTH --- -- POSSIBLE --- -- SOURCE OF PRODUCING INFORMATION --- -- GEOL. INFERENCE --- --
 --- -- WELL DEPTH(M) --- -- 54 --- -- CONFIDENCE OF WELL DEPTH --- -- PROBABLE --- -- SOURCE OF DEPTH INFORMATION --- -- OWNER --- --

REMARKS:

--- -- 1-38 J B HILL 7.5' MAP, SAMPLE TAKEN DIRECTLY FROM HOLDING TANK 4M SE OF WELL, WELL LOCATED ON TOP OF HILL 50M NORTH OF HOUSE;
 --- -- 1-60 AND 3-24 CEMENT HOLDING TANK;
 --- -- 1-78 MAURICE HAMILTON & SORUM, S.D. 57654;

406046 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 31.0 WEATHER -PT CLDY
 PHASE E MAP NL 1309 SITE 4124 TIME TAKEN 14/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.434(45 26' 2") LONG 103.184(103 11' 2") CONTAMINANTS AGRICULTURA SAMPLE: COLOR - -CL ODOR NONE
 SURFACE GEOL UNIT TOH RESULTS REQ NO, RELEASED 800125

GENERAL WATER INFORMATION:

--- -- TREATMENT NONE --- -- CONDUCTIVITY(MICROMHOS/CM) --- -- 390 --- -- DISSOLVED OXYGEN(PPM) --- -- 10.8 --- --
 --- -- WATER TEMP(C) --- -- + 15.4 --- -- VISIBILITY(M) --- -- CLEAR --- -- PH --- -- 8.1 --- -- LO-ION PAPER --- --
 --- -- TOTAL ALKALINITY(PPM) --- -- 200 --- -- P ALKALINITY(PPM) --- -- <5 --- -- M ALKALINITY(PPM) --- -- 180 --- --
 --- -- APPEARANCE --- -- CLEAR --- -- DISCHARGE(L/M) --- -- 4.00 --- --
 --- -- PRODUCING HORIZON --- -- TOH --- -- CONFIDENCE --- -- PROBABLE --- -- SOURCE --- -- GEOL. INFERENCE --- --

WELL INFORMATION:

--- -- TYPE --- -- DRIVE POINT --- -- POWER CLASSIFICATION --- -- ARTESIAN --- -- CASING --- -- GALVANIZED --- -- PIPE COMPOSITION --- -- GALVANIZED --- --
 --- -- METERS FROM HEAD --- -- --- -- WITH RESPECT TO PRESSURE TANK --- -- --- -- USE --- -- STOCK --- -- PUMPING FREQUENCY --- -- CONSTANT --- --
 --- -- DEPTH TO PROD HORIZON(M) --- -- --- -- CONFIDENCE OF PRODUCING DEPTH --- -- --- -- SOURCE OF PRODUCING INFORMATION --- -- --- --
 --- -- WELL DEPTH(M) --- -- --- -- CONFIDENCE OF WELL DEPTH --- -- --- -- SOURCE OF DEPTH INFORMATION --- -- --- --

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN DIRECTLY FROM PIPE FEEDING THE TANK, SPRING LOCATED 10M NORTH OF MARSHY AREA:
1-60 OVERLYING CATTLE PASTURE:

406047 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 31.5 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4125 TIME TAKEN 15/10/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE
LOCATION: LAT 45.437(45 26'13") LONG 103.193(103 11'34") CONTAMINANTS AGRICULTURA
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR -CL QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 750 DISSOLVED OXYGEN(PPH) 10.8
WATER TEMP(C) + 23.0 VISIBILITY(M) CLEAR PH 8.3 LO-ION PAPER
TOTAL ALKALINITY(PPH) 320 P ALKALINITY(PPH) 15 M ALKALINITY(PPH) 328
APPEARANCE CLEAR DISCHARGE(L/M) 0.10
PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE POWER CLASSIFICATION CASING PIPE COMPOSITION
METERS FROM HEAD WITH RESPECT TO PRESSURE TANK USE PUMPING FREQUENCY
DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J B HILL 7.5' MAP, WAMMEN SPRING, SAMPLE TAKEN IN STREAM CHANNEL WHERE WATER APPEARED FARTHEST UPSTREAM, 100M NE OF TWO
POSTS IN HILLSIDE:
1-60 OVERLYING CATTLE PASTURE:

406048 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.5 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4126 TIME TAKEN 15/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.427(45 25'37") LONG 103.177(103 10'37") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 3.00 DEPTH(M) 1.00 LEVEL POOLS
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR D-BN-BK QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 1M UPSTREAM FROM FENCE, OVER 20M INTERVAL, STARTING AT BASE OF STEEP HILL TO THE SOUTH:
1-60 CATTLE:

406049 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.5 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4127 TIME TAKEN 15/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.426(45 25'33") LONG 103.177(103 10'37") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-GY-BN QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 2M UPSTREAM FROM FENCE, OVER 30M INTERVAL, STARTING 15M WEST OF BRUSH BY FENCE AND GOING

DOWNSTREAM:
I-60 CATTLE:

406050 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.5 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4128 TIME TAKEN 15/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.435 (45 26' 6") LONG 103.160 (103 9' 36") CONTAMINANTS MINING STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REG NO , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

I-38 J B HILL 7.5' MAP, SAMPLE TAKEN 50M EAST OF ROAD, OVER 25M INTERVAL, STARTING 20M NORTH OF GROUP OF 6 TREES AT BASE OF HILL;
 I-60 SOIL GRASS, HAMMEN MINE IS 1000M UPSTREAM;

406052 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 31.5 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4129 TIME TAKEN 16/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.445 (45 26' 42") LONG 103.178 (103 10' 40") CONTAMINANTS OTHER SAMPLE: COLOR -CL ODOR NONE
 SURFACE GEOL UNIT TOW RESULTS REG YES , RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHQS/CM) 490 DISSOLVED OXYGEN(PPM) 3.1
 WATER TEMP(C) + 20.7 VISIBILITY(M) CLEAR PH 7.5 LO-TON PAPER
 TOTAL ALKALINITY(PPM) 200 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 200
 APPEARANCE CLEAR DISCHARGE(L/H) 10.00
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING OTHER PIPE COMPOSITION OTHER
 METERS FROM HEAD INK WITH RESPECT TO PRESSURE TANK NONE USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

I-38 J B HILL 7.5' MAP, SAMPLE TAKEN FROM CEMENT AND WOODEN HOLDING TANK ON SIDE OF HILL SLOPING TO THE NORTH;
 I-60 CATTLE WOOD IN HOLDING TANK I-78 ESTHER HAMMEN & SORUM, S.D. 57654;
 3-20 CEMENT AND WOOD;
 3-21 NO PIPE;

406053 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.5 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4130 TIME TAKEN 17/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.443 (45 26' 34") LONG 103.167 (103 10' 1") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT IQH RESULTS REG NO , RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL POOLS
 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 20M UPSTREAM FROM FORK, OVER 20M INTERVAL, STARTING 5M NW OF SANDSTONE ROCK ON EAST BANK;
1-60 GRASS AND MUD;

406054 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.5 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4131 TIME TAKEN 17/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.442(45 26'31") LONG 103.167(103 10' 1") CONTAMINANTS OTHER STREAM FLOW(M/SEC) 0.10
WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL LOW
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 10M UPSTREAM FROM FORK, OVER 15M INTERVAL, STARTING 20M SE OF POWER POLE;
1-60 GRASS, MUD, AND ORGANICS;

406055 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.0 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4132 TIME TAKEN 18/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.461(45 27'39") LONG 103.177(103 10' 37") CONTAMINANTS OTHER STREAM FLOW(M/SEC) 0.10
WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL LOW
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR OTHER

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 15M UPSTREAM FROM FENCE, OVER 15M INTERVAL, STARTING 10M EAST OF TREE;
1-60 GRASS, SOIL, AND ORGANICS;
1-77 ROTTEN SMELL;

406056 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.0 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4133 TIME TAKEN 18/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.462(45 27'43") LONG 103.177(103 10' 37") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN ODOR OTHER

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 40

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN AT SOUTHERN BASE OF HILL, OVER 15M INTERVAL, STARTING 3M WEST OF FENCE;
1-60 CATTLE, SOIL, AND ORGANICS;
1-77 ROTTEN ODOR;

406057 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.0 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4134 TIME TAKEN 18/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.459(45 27'32") LONG 103.155(103 9' 18") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 60M UPSTREAM FROM ROAD, OVER 20M INTERVAL, STARTING 40M UPSTREAM FROM FORK;
1-60 GRASS, CATTLE;

406058 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.0 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4135 TIME TAKEN 18/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.459 (45 27' 32") LONG 103.155 (103 9' 18") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 SAMPLE TAKEN 60M UPSTREAM FROM ROAD, OVER 20M INTERVAL, STARTING 40M UPSTREAM FROM FORK;
1-60 GRASS IN STREAM;

406059 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.0 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4136 TIME TAKEN 18/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.457 (45 27' 25") LONG 103.153 (103 9' 10") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 75

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 30M EAST OF ROAD, OVER 20M INTERVAL, STARTING 30M UPSTREAM FROM FORK;
1-60 ORGANICS, CATTLE;

406060 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 31.5 WEATHER -PT CLDY
PHASE E MAP NL1309 SITE 4137 TIME TAKEN 18/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.445 (45 26' 42") LONG 103.145 (103 8' 42") CONTAMINANTS AGRICULTURAL SAMPLE: COLOR -CL ODOR NONE
SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 330 DISSOLVED OXYGEN(PPM) 15.3
WATER TEMP(C) 7.9 VISIBILITY(M) CLEAR PH 8.1 LO-ION PAPER
TOTAL ALKALINITY(PPM) 142 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 140
APPEARANCE CLEAR DISCHARGE(L/H) 6.00
PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING PLASTIC PIPE COMPOSITION PLASTIC
METERS FROM HEAD 600 W/TH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J B HILL MAP, SAMPLE TAKEN FROM PIPE AT TANK ON SOUTH SIDE OF FENCED IN AREA AROUND TIN BUILDINGS, SPRING LOCATED 600M TO SOUTH IN HILLS;
1-60 CATTLE

406061 TYPE WELL WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 26.5 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4143 TIME TAKEN 14/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.415 (45 24'54") LONG 103.137 (103 8'13") CONTAMINANTS NONE
SURFACE GEOL UNIT TPFL RESULTS REG NO , RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1520 DISSOLVED OXYGEN(PPM) 2.4
WATER TEMP(C) + 19.2 VISIBILITY(M) CLEAR PH 9.1 LO-TON PAPER
TOTAL ALKALINITY(PPM) 428 P ALKALINITY(PPM) 54 M ALKALINITY(PPM) 428
APPEARANCE CLEAR DISCHARGE(L/M) 20.00
PRODUCING HORIZON KGMH CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 20 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M) 150 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL INFERENCE
WELL DEPTH(M) 150 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL INFERENCE

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 15M EAST OF WELL AT FAUCET ON SOUTH SIDE OF HOUSE, WELL LOCATED ON TOP OF HILL TO THE WEST OF HOUSE;

406062 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4144 TIME TAKEN 15/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.421 (45 25'15") LONG 103.151 (103 9' 3") CONTAMINANTS AGRICULTURAL STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 5.00 DEPTH(M) 1.00 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REG NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN AT BEND IN STREAM WHICH IS CONCAVE TO THE SOUTH, OVER 30M INTERVAL, STARTING 40M NORTHWEST OF TREES ON SOUTH BANK;
1-60 CATTLE;

406063 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.5 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4145 TIME TAKEN 16/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.424 (45 25'26") LONG 103.146 (103 8'45") CONTAMINANTS AGRICULTURAL STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 5.00 DEPTH(M) 1.00 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REG NO , RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR D-BN-BK QDQR H25

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN ON CURVE IN STREAM WHICH IS CONCAVE TO THE SOUTH, OVER 27H INTERVAL, STARTING 2H NW OF TREE;
1-60 CATTLE;

406064 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCAST
PHASE E MAP NL1309 SITE 4146 TIME TAKEN 16/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.425(45 25'30") LONG 103.144(103 8'38") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR NONE
SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:
1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 30M UPSTREAM OF FORK, OVER 16H INTERVAL, STARTING 3H WEST OF TREE ON SOUTH BANK, AND GOING UPSTREAM;
1-60 CATTLE;

406065 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4147 TIME TAKEN 17/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.406(45 24'21") LONG 103.133(103 7'58") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 6.00 DEPTH(M) 1.00 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR H2S
SEDIMENT INFORMATION:
SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:
1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 5M UPSTREAM FROM ROAD, OVER 22H INTERVAL, STARTING 1H WEST OF FENCE;
1-60 HAY FIELD;

406066 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4148 TIME TAKEN 18/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.403(45 24'10") LONG 103.145(103 8'42") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE
SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 30

REMARKS:
1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 30M UPSTREAM FROM FORK, OVER 17H INTERVAL, STARTING 4M EAST OF FENCE;
1-60 SOIL, CATTLE;

406067 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4149 TIME TAKEN 18/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.404(45 24'14") LONG 103.146(103 8'45") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR OTHER

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM OF FORK, OVER 20M INTERVAL, STARTING 20M NORTH OF BRUSH ON SW BANK;
 1-60 CATTLE;
 1-77 ROTTEN SHELL;

406068 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4150 TIME TAKEN 10/11/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.413 (45 24' 46") LONG 103.128 (103 7' 40") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 10.00 DEPTH(M) 3.00 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 30M EAST OF ROAD, OVER 12M INTERVAL, STARTING AT SOUTH END OF LARGE POOL AND GOING
 UPSTREAM;
 1-60 CATTLE;

406069 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 29.8 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4151 TIME TAKEN 11/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.458 (45 27' 28") LONG 103.137 (103 8' 13") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-WH-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM FROM FORK, OVER 70M INTERVAL, STARTING BESIDE THE SOUTH BANK WITH .5M HIGH
 BRUSH GROWING ON IT;
 1-60 CATTLE;

406070 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4152 TIME TAKEN 11/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.458 (45 27' 28") LONG 103.136 (103 8' 9") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 60M UPSTREAM FROM FORK, OVER 75M INTERVAL, STARTING 80M NORTH OF BRUSH;
 1-60 CATTLE;

406071 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 29.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4153 TIME TAKEN 11/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.464 (45 27'50") LONG 103.136 (103 8' 9") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN ON CURVE WHICH BENDS FROM NORTH TO EAST, DOWNSTREAM, OVER 14M INTERVAL, STARTING 5M NE OF TREE ON WEST BANK:
 1-60 CATTLE:

406072 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4154 TIME TAKEN 12/12/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.471 (45 28' 15") LONG 103.127 (103 7' 37") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN IN CLEARING BETWEEN GROUPS OF TREES, OVER 14M INTERVAL, STARTING 15M EAST OF SMALL, 3M, MESA ON SOUTH BANK:
 1-60 CATTLE, GRASS IN STREAM BED:

406073 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4155 TIME TAKEN 12/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.473 (45 28' 22") LONG 103.130 (103 7' 48") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 5.00 DEPTH(M) 1.00 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR OTHER

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 J B HILL 7.5' MAP SAMPLE TAKEN 60M UPSTREAM FROM FORK, 9M WEST OF FENCE, OVER 20M INTERVAL, STARTING 20M SOUTH OF BEND IN STREAM:
 1-60 ORGANICS, CATTLE, GRASS IN STREAM:

406075 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4156 TIME TAKEN 12/12/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.472 (45 28' 19") LONG 103.130 (103 7' 48") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 60M UPSTREAM FROM BEND IN CHANNEL, OVER 15M INTERVAL, STARTING 20M EAST OF FENCE;
1-60 CATTLE;

406076 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 32.5 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4157 TIME TAKEN 13/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.480 (45 28'48") LONG 103.138 (103 8'16") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.05 LEVEL POOLS
BED MATERIAL SILT SAMPLE: COLOR D-GY-BK ODOR OTHER

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM FROM FORK, OVER 14M INTERVAL, STARTING WHERE STREAM BENDS FROM NORTH TO WEST, UPSTREAM;
1-60 CATTLE;
1-77 ROTTEN SMELL;

406077 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 32.5 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4978 TIME TAKEN 13/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.480 (45 28'48") LONG 103.137 (103 8'13") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.05 LEVEL POOLS
BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR OTHER

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM FROM FORK, OVER 14M INTERVAL, STARTING AT EAST END OF SAND BAR;
1-60 CATTLE;

406078 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 32.5 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4158 TIME TAKEN 14/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.472 (45 28'19") LONG 103.147 (103 8'49") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 200M UPSTREAM FROM FORK, OVER 14M INTERVAL, STARTING 20M NW OF LARGE, 20M, BARE HILL ON SOUTH BANK;
1-60 CATTLE, GRASS IN CHANNEL;

406079 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 32.5 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4158 TIME TAKEN 14/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.471 (45 28'15") LONG 103.147 (103 8'49") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 200M UPSTREAM FROM FORK, OVER 15M INTERVAL, STARTING 60M SW OF LARGE BARE HILL;
 1-60 CATTLE:

406080 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 32.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4159 TIME TAKEN 16/12/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.385(45 23' 6") LONG 103.161(103 9'39") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 20M UPSTREAM FROM FORK, OVER 27M INTERVAL, STARTING 10M EAST OF TREES;
 1-60 SOIL, GRASS IN STREAM BED, CATTLE:

406081 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 28.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4160 TIME TAKEN 16/12/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.385(45 23' 6") LONG 103.160(103 9'36") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG

SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.05 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 10M UPSTREAM FROM FORK, OVER 18M INTERVAL, STARTING 10M WEST OF TREES;
 1-60 CATTLE:

406082 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 20.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4165 TIME TAKEN 10/17/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.437(45 26' 13") LONG 103.167(103 10' 1") CONTAMINANTS AGRICULTURA

SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR U-YL-BN ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 650 DISSOLVED OXYGEN(PPM) 2.7
 WATER TEMP(C) + 12.2 VISIBILITY(M) 1.00 PH 6.8 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 333 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 321
 APPEARANCE MURKY DISCHARGE(L/M) 6.00 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON TOH CONFIDENCE POSSIBLE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 80 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE

DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN FROM ORANGE FAUCET BY STOCK TANK, SPRING LOCATED 80M UPHILL TO THE WEST;
 1-60 OVERLYING PASTURE FOR CATTLE;

406083 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 21.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4166 TIME TAKEN 11/17/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.400 (45 24' 0") LONG 103.154 (103 9' 14") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.10
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.10 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 7M SE OF HILL, OVER 23M INTERVAL, STARTING 1M UPSTREAM FROM SMALL, 1M, WATERFALL;
 1-60 CATTLE;

406084 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 21.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4167 TIME TAKEN 12/17/07/79 RELIEF MODERATE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.398 (45 23' 52") LONG 103.156 (103 9' 21") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.10
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.10 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM FROM FORK, OVER 23M INTERVAL, STARTING 1M EAST OF FENCE ACROSS STREAM;
 1-60 CATTLE;

406085 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 24.6 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4168 TIME TAKEN 12/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.392 (45 23' 31") LONG 103.157 (103 9' 25") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.10 DEPTH(M) 0.10 LEVEL LOW
 SURFACE GEOL UNIT TOH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR OTHER

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 40M UPSTREAM FROM FORK, OVER 21M INTERVAL, STARTING 4M NORTH OF GROUP OF BUSHES, AND GOING
 DOWNSTREAM;
 1-60 CATTLE;
 1-77 ROTTEN SMELL;

406086 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 25.0 WEATHER -PT CLDY

PHASE E MAP NL1303 SITE 4169 TIME TAKEN 14/17/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.387(45 23'13") LONG 103.176(103 10'33") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 870 DISSOLVED OXYGEN(PPM) 9.4
 WATER TEMP(C) + 23.5 VISIBILITY(M) 0.10 PH 8.1 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 405 P ALKALINITY(PPM) 20 M ALKALINITY(PPM) 407
 APPEARANCE MURKY DISCHARGE(L/M) 1.00
 PRODUCING HORIZON TOW CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE OTHER POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION OTHER
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 4M UPHILL OF STOCK TANK, OFF THE GROUND, ELLIOTT SPRING;
 3-18 WATER JUST RUNNING OUT OF GROUND;
 3-21 NO PIPE;

406087 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4170 TIME TAKEN 15/17/07/79 RELIEF MODERATE VEGETATION CONIFER/DECIDUOUS-MODERATE
 LOCATION: LAT 45.372(45 22'19") LONG 103.163(103 9'46") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 610 DISSOLVED OXYGEN(PPM) 15.7
 WATER TEMP(C) + 10.6 VISIBILITY(M) CLEAR PH 8.8 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 318 P ALKALINITY(PPM) 72 M ALKALINITY(PPM) 311
 APPEARANCE CLEAR DISCHARGE(L/M) 0.10
 PRODUCING HORIZON TOW CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING UNKNOWN PIPE COMPOSITION UNKNOWN
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 30M EAST OF HIGHWAY, DIRECTLY FROM BLUE FIBERGLASS STOCK TANK WITH WOODEN FENCE AROUND IT;

406088 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 23.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4171 TIME TAKEN 16/17/07/79 RELIEF MODERATE VEGETATION CONIFER/DECIDUOUS-MODERATE
 LOCATION: LAT 45.367(45 22' 1") LONG 103.176(103 10'33") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 580 DISSOLVED OXYGEN(PPM) 11.4
 WATER TEMP(C) + 10.3 VISIBILITY(M) CLEAR PH 8.6 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 303 P ALKALINITY(PPM) 39 M ALKALINITY(PPM) 309

APPEARANCE CLEAR DISCHARGE(L/M) 12.00
 PRODUCING HORIZON TOH CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING PLASTIC PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN FROM PIPE FEEDING MOUNTAIN RANCH SPRING NUMBER 2, SPRING LOCATED 90M NORTH OF FENCE,
 BESIDE 5M LONG WOODEN FENCE:

406089 TYPE SPRING WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 23.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4172 TIME TAKEN 11/17/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.368(45 22' 4") LONG 103.168(103 10' 4") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOH RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 650 DISSOLVED OXYGEN(PPM) 9.2
 WATER TEMP(C) + 12.2 VISIBILITY(M) CLEAR PH 7.7 LO-TON PAPER
 TOTAL ALKALINITY(PPM) 375 P ALKALINITY(PPM) 5 M ALKALINITY(PPM) 360
 APPEARANCE CLEAR DISCHARGE(L/M) 2.00
 PRODUCING HORIZON TOH CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING PLASTIC PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN FROM PIPE FEEDING STOCK TANK, SPRING LOCATED 65M WEST OF CANYON, ON HILLSIDE, BESIDE 5M
 LONG WOODEN FENCE:

406090 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 24.6 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4173 TIME TAKEN 11/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.337(45 20' 13") LONG 103.157(103 9' 25") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.30 DEPTH(M) 0.10 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 20 ORGANIC MATERIAL(%)

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM FROM FORK, OVER 41M INTERVAL, STARTING 7M EAST OF LEDGES ON WEST BANK, AND
 GOING DOWNSTREAM;
 J-60 CATTLE

406091 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.5 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4197 TIME TAKEN 10/20/07/79 RELIEF LOW VEGETATION GRASS-MODERATE

LOCATION: LAT 45.351 (45 21' 3") LONG 103.280 (103 15' 36") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BAMS BUTTE SE 7.5' MAP, SAMPLE TAKEN 70M UPSTREAM FROM FORK, OVER 23M INTERVAL, STARTING 4M NORTH OF LARGE, 3M HIGH BUSH;
 1-60 SOIL GRASS IN CHANNEL, CATTLE;
 1-78 A.W. LIMPET & BUFFALO, S.D. 57720;

406092 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4198 TIME TAKEN 11/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.339 (45 20' 20") LONG 103.258 (103 15' 28") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 5.00 DEPTH(M) 1.00 LEVEL POOLS
 SURFACE GEOL UNIT KGMM RESULTS REQ NO, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BK-GY ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BAMS BUTTE SE 7.5' MAP, SAMPLE TAKEN 40M UPSTREAM FROM FORK, OVER 30M INTERVAL, STARTING AT SOUTH END OF POOL;
 1-60 CATTLE;

406093 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 29.5 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4199 TIME TAKEN 12/20/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.328 (45 19' 40") LONG 103.257 (103 15' 25") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 5.00 DEPTH(M) 1.00 LEVEL POOLS
 SURFACE GEOL UNIT KGMM RESULTS REQ NO, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 40

REMARKS:

1-38 BAMS BUTTE SE 7.5' MAP, SAMPLE TAKEN 40M DOWNSTREAM OF FENCE, OVER 23M INTERVAL, STARTING AT NORTH END OF LARGE POOL;
 1-60 CATTLE;

406094 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 30.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4200 TIME TAKEN 14/20/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.314 (45 18' 50") LONG 103.246 (103 14' 45") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ NO, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 2M NORTH OF FENCE, OVER 16M INTERVAL, GOING UPSTREAM, NO OTHER LANDMARKS;
 1-60 CATTLE;

406095 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 30.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4301 TIME TAKEN 14/20/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.314 (45 18' 50") LONG 103.261 (103 15' 39") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 3.00 DEPTH(M) 1.00 LEVEL POOLS
 BED MATERIAL SAND SAMPLE: COLOR D-BK-GY ODOR H2S
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 BAMS BUTTE SE 7.5' MAP. SAMPLE TAKEN WHERE STREAM BENDS FROM SOUTH TO WEST DOWNSTREAM, OVER 25M INTERVAL, STARTING AT EAST
 END OF LARGE POOL:
 1-60 CATTLE:

406096 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 30.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4302 TIME TAKEN 15/20/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.307 (45 18' 25") LONG 103.227 (103 13' 37") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 2.00 DEPTH(M) 0.10 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP. SAMPLE TAKEN 20M DOWNSTREAM FROM FORK, OVER 14M INTERVAL, STARTING 1M UPSTREAM FROM SMALL ZIG ZAGS
 IN CHANNEL:
 1-60 CATTLE:

406097 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4303 TIME TAKEN 16/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.305 (45 18' 18") LONG 103.214 (103 12' 50") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 8.00 DEPTH(M) 2.00 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 IRISH BUTTE 7.5' MAP. SAMPLE TAKEN 70M WEST OF LARGE HILL, OVER 20M, STARTING AT NORTH END OF POOL AND MOVING DOWNSTREAM:
 1-60 CATTLE:

406098 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4304 TIME TAKEN 12/23/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.369 (45 22' 8") LONG 103.265 (103 15' 54") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 5.00 DEPTH(M) 1.00 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 BAMS BUTTE SE 7.5' MAP. SAMPLE TAKEN AT FIRST POOL UPSTREAM FROM POND, OVER 15M INTERVAL, STARTING WHERE STREAM BENDS FROM NW TO NORTH UPSTREAM;
1-60 CATTLE;

406099 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4305 TIME TAKEN 12/23/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.369 (45 22' 8") LONG 103.266 (103 15' 57") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 3.00 DEPTH(M) 0.50 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 BAMS BUTTE SE 7.5' MAP. SAMPLE TAKEN FROM FIRST POOL UPSTREAM FROM POND, OVER 14M INTERVAL, STARTING 10M NORTH OF WHERE
 STREAM BENDS FROM EAST TO NORTH UPSTREAM;
 1-60 CATTLE;

406100 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4306 TIME TAKEN 13/23/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.380 (45 22' 48") LONG 103.267 (103 16' 1") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-BK-GY ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 BAMS BUTTE 7.5' MAP. SAMPLE TAKEN 20M UPSTREAM FROM SMALL BUNCH OF TREES, OVER 17M INTERVAL, STARTING AT MEANDER WHICH IS
 CONCAVE TO THE EAST;
 1-60 SOIL, GRASS IN CHANNEL, CATTLE;

406101 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4307 TIME TAKEN 13/23/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.380 (45 22' 48") LONG 103.266 (103 15' 57") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 BAMS BUTTE 7.5' MAP. SAMPLE TAKEN 30M EAST OF SMALL GROUP OF TREES, OVER 12M INTERVAL, STARTING 5M DOWNSTREAM OF WHERE
 CHANNEL BENDS NORTH UPSTREAM;
 1-60 CATTLE;

406102 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.0 WEATHER -RAINY
 PHASE E MAP NL1309 SITE 4308 TIME TAKEN 14/23/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.414 (45 24' 50") LONG 103.272 (103 16' 19") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG

SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 4.00 DEPTH(M) 1.00 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 BAMS BUTTE 7.5' MAP, SAMPLE TAKEN 10M EAST OF SMALL TREE, OVER 23M INTERVAL, STARTING WHERE CHANNEL WIDENS OUT INTO A POOL
 UPSTREAM:
 1-60 CATTLE:

406104 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.5 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4309 TIME TAKEN 16/23/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.367(45 22' 1") LONG 103.246(103 14'45") CONTAMINANTS MINING STREAM FLOW(M/SEC) --
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 17 ORGANIC MATERIAL(%)

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN ON BEND WHICH IS CONCAVE TO THE SOUTH, OVER 35M INTERVAL, STARTING 20M EAST OF
 SANDSTONE CONCRETION IN SOUTH BANK:
 1-60 OLD MINE 2 KM UPSTREAM, CATTLE:

406105 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4310 TIME TAKEN 17/23/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.373(45 22'22") LONG 103.246(103 14'45") CONTAMINANTS MINING STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.10 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 15M EAST OF SMALL HILL, OVER 16M INTERVAL, STARTING AT WEST END OF SMALL POOL WHICH IS
 CONCAVE TO THE NORTH:
 1-60 OLD MINE 2 KM UPSTREAM, GRASS IN CHANNEL, CATTLE:

406106 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.5 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4311 TIME TAKEN 17/23/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.376(45 22'33") LONG 103.247(103 14'49") CONTAMINANTS OTHER STREAM FLOW(M/SEC) --
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 J B HILL 7.5' MAP, SAMPLE TAKEN 70M UPSTREAM FROM THE MAIN FORK, OVER 21M INTERVAL, STARTING 1M NORTH OF FENCE:
 1-60 GRASS IN CHANNEL, CATTLE:

406107 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.0 WEATHER -PT CLDY
 PHASE E MAP NL1309 SITE 4312 TIME TAKEN 17/23/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.377(45 22'37") LONG 103.247(103 14'49") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 J B HILL 7.5' MAP. SAMPLE TAKEN 14M UPSTREAM FROM FORK, 60M NORTH OF FENCE, OVER 12M INTERVAL, STARTING WHERE THE CHANNEL IS BARE OF GRASS;
 1-60 CATTLE;

406108 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4313 TIME TAKEN 17/23/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.377(45 22'37") LONG 103.248(103 14'52") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 J B HILL 7.5' MAP. SAMPLE TAKEN 30M UPSTREAM FROM FORK, OVER 20M INTERVAL, STARTING WHERE CHANNEL BENDS FROM NORTH TO WEST UPSTREAM;
 1-60 GRASS IN CHANNEL, CATTLE;

406109 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.6 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4314 TIME TAKEN 11/24/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.391(45 23'27") LONG 103.253(103 15'10") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR OTHER
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 50

REMARKS:
 1-38 BAMS BUTTE 7.5' MAP. SAMPLE TAKEN 10M UPSTREAM FROM FORK, OVER 20M INTERVAL, STARTING BESIDE BRUSH ON WEST BANK;
 1-60 CATTLE, VEGETATION IN STREAM;
 1-77 ROTTEN SHELL;

406110 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.6 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4315 TIME TAKEN 12/24/07/79 RELIEF GENTLE VEGETATION BRUSH-MODERATE
 LOCATION: LAT 45.391(45 23'27") LONG 103.252(103 15' 7") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT TOW RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 0.50 DEPTH(M) 0.10 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR OTHER
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 BAMS BUTTE 7.5' MAP. SAMPLE TAKEN 10M UPSTREAM FROM FORK, OVER 17M INTERVAL, STARTING 1M EAST OF COW PATH ACROSS STREAM;
 1-60 CATTLE;
 1-77 ROTTEN SMELL;

406112 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 28.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4316 TIME TAKEN 12/24/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.389 (45 23' 20") LONG 103.251 (103 15' 3") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) -- LEVEL DRY --
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) DEPTH(M)
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 BAMS BUTTE 7.5' MAP. SAMPLE TAKEN 60M EAST OF OTHER STREAM, OVER 14M INTERVAL, STARTING 20M WEST OF THE NORTH END OF A
 LEDGE ON THE SE BANK;
 1-60 CATTLE;

406113 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.3 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4317 TIME TAKEN 14/24/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.423 (45 25' 22") LONG 103.247 (103 14' 49") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 J B HILL 7.5' MAP. SAMPLE TAKEN 12M UPSTREAM FROM FORK, OVER 12M INTERVAL, STARTING BESIDE DRAINAGE CHANNEL IN NORTH BANK;
 1-60 GRASS IN CHANNEL, CATTLE;

406114 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.2 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4318 TIME TAKEN 14/24/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.424 (45 25' 26") LONG 103.247 (103 14' 49") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 J B HILL 7.5' MAP. SAMPLE TAKEN 10M UPSTREAM FROM FORK, OVER 12M INTERVAL, STARTING BESIDE SMALL MOUND ON NORTH SIDE OF
 STREAM;
 1-60 GRASS IN CHANNEL, CATTLE;

406115 TYPE WELL WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4457 TIME TAKEN 16/31/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.462 (45 27' 43") LONG 103.114 (103 6' 50") CONTAMINANTS NONE

SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125

SAMPLE: COLOR - -CL ODOOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	1540	DISSOLVED OXYGEN (PPH)	3.5
WATER TEMP (C)	+ 18.1	VISIBILITY (M)	CLEAR	PH 8.8	LO-ION PAPER
TOTAL ALKALINITY (PPH)	500	P ALKALINITY (PPH)	56	M ALKALINITY (PPH)	496
APPEARANCE	CLEAR	DISCHARGE (L/M)	20.00		
PRODUCING HORIZON	KGMH	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	OTHER
METERS FROM HEAD	2	WITH RESPECT TO PRESSURE TANK	AFTER	USE	HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON (M)	78	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH (M)	78	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN FROM FAUCET ON SIDE OF HOUSE:
 1-78 BROOKE HERSHEY & SORUM, S.D., 57654;
 3-21 10 METERS OF COPPER AND 10 METERS GALVANIZED:

406116	TYPE	WELL WATER	REPLICATE	SAMPLER	PGL	AIR TEMP (C)	+ 28.0	WEATHER	LT WIND-PT CLDY			
	PHASE	E	MAP	NL 1309	SITE	4458	TIME TAKEN	16/31/07/79	RELIEF	GENTLE	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT	45.462 (45 27' 43")	LONG	103.176 (103 8' 57")				CONTAMINANTS	NONE		
	SURFACE GEOL UNIT	TPFL	RESULTS REG NO	,RELEASED	800125				SAMPLE: COLOR	- -CL	ODOOR	NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	5380	DISSOLVED OXYGEN (PPH)	4.8
WATER TEMP (C)	+ 11.2	VISIBILITY (M)	CLEAR	PH 7.9	LO-ION PAPER
TOTAL ALKALINITY (PPH)	770	P ALKALINITY (PPH)	<5	M ALKALINITY (PPH)	790
APPEARANCE	CLEAR	DISCHARGE (L/M)	20.00		
PRODUCING HORIZON	TPFL	CONFIDENCE	POSSIBLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	7	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON (M)	30	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE		
WELL DEPTH (M)	30	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN FROM ELECTRIC PUMP 100M SOUTH OF HOUSE NEAR CORRAL AND LEADING TO STOCK TANK.
 1-78 BROOKE HERSHEY & SORUM, S.D., 57654;

406117	TYPE	WELL WATER	REPLICATE	SAMPLER	PGL	AIR TEMP (C)	+ 29.0	WEATHER	LT WIND-CLEAR			
	PHASE	E	MAP	NL 1309	SITE	4459	TIME TAKEN	17/31/07/79	RELIEF	LOW	VEGETATION	GRASS-MODERATE
	LOCATION:	LAT	45.421 (45 25' 15")	LONG	103.019 (103 1' 8")				CONTAMINANTS	OTHER		
	SURFACE GEOL UNIT	TPFL	RESULTS REG NO	,RELEASED	800125				SAMPLE: COLOR	- -CL	ODOOR	NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	2130	DISSOLVED OXYGEN (PPH)	5.5
WATER TEMP (C)	+ 11.6	VISIBILITY (M)	CLEAR	PH 7.5	LO-ION PAPER
TOTAL ALKALINITY (PPH)	660	P ALKALINITY (PPH)	<5	M ALKALINITY (PPH)	650
APPEARANCE	CLEAR	DISCHARGE (L/M)	30.00		
PRODUCING HORIZON	KGMH	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	GALVANIZED	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	66	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	GEOLOGICAL INFERENCE		
WELL DEPTH(M)	66	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN FROM HYDRANT ON TOP OF HILL LEADING TO STOCK TANK ONE HALF MILE EAST OF HOUSE;
1-78 VERNON HAMMEN & SORUM, S.D. 57654;

406118	TYPE	WELL WATER	REPLICATE	SAMPLER DWT	AIR TEMP(C)	+ 28.0	WEATHER	LT WIND-CLEAR
	PHASE	E	MAP N1309	SITE 4460	TIME TAKEN	17/31/07/79	RELIEF	GENTLE
	LOCATION:	LAT 45.426(45 25'33")	LONG 103.002(103 0' 7")	CONTAMINANTS	NONE			
	SURFACE GEOL UNIT	KGMH	RESULTS REQ	YES	RELEASED	800125	SAMPLE: COLOR	-CL QDQR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	750	DISSOLVED OXYGEN(PPH)	1.2
WATER TEMP(C)	+ 12.1	VISIBILITY(M)	CLEAR	PH	7.4 LO-ION PAPER
TOTAL ALKALINITY(PPH)	310	P ALKALINITY(PPH)	<5	M ALKALINITY(PPH)	308
APPEARANCE	CLEAR	DISCHARGE(L/M)	20.00	SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	KGMH	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	STEEL	PIPE COMPOSITION	STEEL
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE	HOUSE/STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	61	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION	OWNER		
WELL DEPTH(M)	61	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER		

REMARKS:

1-38 FLAT TOP BUTTE, 7.5' QUAD., SAMPLE TAKEN FROM PUMP DIRECTLY OVER WELL, WHICH IS LOCATED 100M NORTH OF THE HOUSE;
1-78 EDGAR JOHNSON & SORUM, S.D., 57654;

406119	TYPE	SPRING WATER	REPLICATE	SAMPLER DWT	AIR TEMP(C)	+ 30.0	WEATHER	CALM-CLEAR
	PHASE	E	MAP N1309	SITE 4461	TIME TAKEN	11/01/08/79	RELIEF	GENTLE
	LOCATION:	LAT 45.354(45 21'14")	LONG 103.088(103 5'16")	CONTAMINANTS	NONE			
	SURFACE GEOL UNIT	TOH	RESULTS REQ	NO	RELEASED	800125	SAMPLE: COLOR	-CL QDQR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	850	DISSOLVED OXYGEN(PPH)	11.0
WATER TEMP(C)	+ 14.6	VISIBILITY(M)	CLEAR	PH	8.6 LO-ION PAPER
TOTAL ALKALINITY(PPH)	445	P ALKALINITY(PPH)	22	M ALKALINITY(PPH)	430
APPEARANCE	CLEAR	DISCHARGE(L/M)	2.00	SOURCE	GEOLOGICAL INFERENCE
PRODUCING HORIZON	TOH	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRIVE POINT	POWER CLASSIFICATION	ARTESIAN	CASING	PLASTIC	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	11	WITH RESPECT TO PRESSURE TANK		USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)		CONFIDENCE OF PRODUCING DEPTH		SOURCE OF PRODUCING INFORMATION			
WELL DEPTH(M)		CONFIDENCE OF WELL DEPTH		SOURCE OF DEPTH INFORMATION			

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN FROM PIPE TO STOCK TANK OF THIN SPRINGS NEXT TO LARGE FALLEN TREE;

406120 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4462 TIME TAKEN 12/01/08/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.354 (45 21'14") LONG 103.053 (103 3'10") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPL RESULTS REG NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 3940 DISSOLVED OXYGEN (PPH) 3.1
 WATER TEMP (C) + 16.3 VISIBILITY (M) CLEAR PH 7.6 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 954 P ALKALINITY (PPH) 75 M ALKALINITY (PPH) 942
 APPEARANCE CLEAR DISCHARGE (L/M) 1.00
 PRODUCING HORIZON TPL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING PLASTIC PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN FROM RICKI SPRINGS PIPE TO STOCK TANK LOCATED IN LARGE CLEARING;

406121 TYPE WELL WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4463 TIME TAKEN 13/01/08/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.425 (45 25'30") LONG 103.109 (103 6'32") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPL RESULTS REG NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOR H2S

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1410 DISSOLVED OXYGEN (PPH) 3.5
 WATER TEMP (C) + 13.0 VISIBILITY (M) CLEAR PH 10.3 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 620 P ALKALINITY (PPH) 240 M ALKALINITY (PPH) 630
 APPEARANCE CLEAR DISCHARGE (L/M) 20.00
 PRODUCING HORIZON KGMH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE
 DEPTH TO PROD HORIZON (M) 66 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH (M) 66 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:
 1-38 FLAT TOP BUTTE, 7.5 QUAD., SAMPLE TAKEN FROM WELL 100M SOUTH OF DIRT ROAD, PIPE LEADING TO STOCK TANK;
 1-60 SUBMERSIBLE PUMP;

406122 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4464 TIME TAKEN 14/01/08/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.464 (45 27'50") LONG 103.141 (103 8'27") CONTAMINANTS OTHER STREAM FLOW (M/SEC) NONE
 SURFACE GEOL UNIT TPL RESULTS REG NO , RELEASED 800125 WATER: WIDTH (M) 2.00 DEPTH (M) 0.30 LEVEL NORMAL
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 J. B. HILL 7.5 QUAD. SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 25M DOWNSTREAM FROM WHERE THE STREAM BRANCHES;
1-60 MARSH AND GRASS:

406123 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4465 TIME TAKEN 14/01/08/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.463(45 27'46") LONG 103.146(103 8'45") CONTAMINANTS OTHER
SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR L-VL-GY ODOR H2S

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1030 DISSOLVED OXYGEN(PPM) 1.6
WATER TEMP(C) + 21.6 VISIBILITY(M) CLEAR PH 8.4 LO-TON PAPER
TOTAL ALKALINITY(PPM) 400 P ALKALINITY(PPM) 20 M ALKALINITY(PPM) 380
APPEARANCE CLEAR DISCHARGE(L/H) 20.00
PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING PLASTIC PIPE COMPOSITION PLASTIC
METERS FROM HEAD 4 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM SPRING JUST BELOW STOCK DAM FROM PLASTIC PIPE;
1-60 LIVESTOCK, MAYBE JUST RUNOFF FROM STOCK DAM:

406127 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4174 TIME TAKEN 12/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.329(45 19'44") LONG 103.151(103 9' 3") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 0.50 DEPTH(M) 0.30 LEVEL LOW
SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL PEBBLE SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP. SAMPLE TAKEN 80M NE OF CLIFFS ON WEST BANK, OVER 20M INTERVAL, STARTING 1M NORTH OF FENCE;
1-60 CATTLE:

406128 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4175 TIME TAKEN 13/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.308(45 18'28") LONG 103.146(103 8'45") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL NORMAL
SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP. SAMPLE TAKEN 50M UPSTREAM FROM FORK, OVER 22M INTERVAL, STARTING 8M WEST OF THE NORTH END OF LEDGE
ON EAST BANK;
1-60 CATTLE AND HORSES IN DRAINAGE BASIN:

406129 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) +26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4176 TIME TAKEN 14/14/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.324 (45 19'26") LONG 103.172 (103 10'19") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 7.00 DEPTH(M) 1.00 LEVEL POOLS
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BN ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP. SAMPLE TAKEN 90M UPSTREAM FROM FORK, OVER 20M INTERVAL, STARTING 20M SOUTH OF THE NORTH END OF LARGE
 POOL
 1-60 CATTLE:

406130 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) +26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 0077 TIME TAKEN 14/18/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.323 (45 19'32") LONG 103.171 (103 10'15") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT KGMM RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL LOH
 BED MATERIAL SAND SAMPLE: COLOR M-BN-GY ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 14 ORGANIC MATERIAL(%)

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP. SAMPLE TAKEN 90M UPSTREAM FROM FORK, OVER 31M INTERVAL, STARTING WHERE STREAM BENDS FROM EAST TO
 NORTH UPSTREAM:
 1-60 CATTLE:

406132 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) +26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4178 TIME TAKEN 15/18/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.335 (45 20' 6") LONG 103.198 (103 11'52") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMM RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP. SAMPLE TAKEN 35M DOWNSTREAM FROM FENCE ACROSS STREAM, OVER 17M INTERVAL, STARTING AT NORTH END OF
 AREA WITH MARSH TYPE OF GRASS, AND GOING DOWNSTREAM;
 1-60 CATTLE:
 1-78 WESLEY HORTON & SORUM, S.D. 57654:

406133 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) +26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4179 TIME TAKEN 15/18/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.333 (45 19'58") LONG 103.201 (103 12' 3") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT KGMM RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) 3.00 DEPTH(M) 0.50 LEVEL POOLS
 BED MATERIAL CLAY SAMPLE: COLOR D-BN-BK ODOR OTHER
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 100M UPSTREAM FROM POND, OVER 20M INTERVAL, STARTING 40M NE OF HILL WITH SOIL SLUMPS;
 1-77 ROTTEN SHELL;
 1-78 WESLEY HORTON & SORUM, S.D. 57654;

406134 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4180 TIME TAKEN 16/18/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.335 (45 20' 6") LONG 103.197 (103 11' 49") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 45M SOUTH OF FENCE ACROSS STREAM, OVER 18M INTERVAL, STARTING 10M WEST OF THE NORTH END OF LEDGE ON EAST BANK;
 1-60 CATTLE;
 1-78 WESLEY HORTON & SORUM, S.D. 57654;

406135 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4181 TIME TAKEN 16/18/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.335 (45 20' 6") LONG 103.194 (103 11' 38") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 40M SOUTH OF FENCE ACROSS STREAM, OVER 18M INTERVAL, STARTING 15M NORTH OF WHERE STREAM BENDS TO THE WEST DOWNSTREAM;
 1-60 CATTLE;
 1-78 WESLEY HORTON & SORUM, S.D. 57654;

406136 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4182 TIME TAKEN 17/18/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.343 (45 20' 34") LONG 103.177 (103 10' 37") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 40M UPSTREAM FROM FORK, OVER 14M INTERVAL, STARTING 10M SE OF MESA BETWEEN STREAMS;
 1-60 CATTLE;

406137 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 26.0 WEATHER LT WIND-PT CLDY

PHASE E MAP NL1309 SITE 4183 TIME TAKEN 11/18/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.344 (45 20'38") LONG 103.177 (103 10'37") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL NORMAL
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BK-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%)

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 30M UPSTREAM FROM FORK, OVER 14M INTERVAL, STARTING 10M SW OF MESA BETWEEN STREAMS;
 1-60 CATTLE;

406138 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4184 TIME TAKEN 11/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.321 (45 19'15") LONG 103.136 (103 8'9") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.30 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 100M UPSTREAM FROM SPRING CREEK, OVER 20M INTERVAL, STARTING 10M SOUTH OF FENCE AND
 GOING UPSTREAM;
 1-60 CATTLE;
 1-78 LAFLIN RANCH & NEWELL, S.D. 57760;

406139 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.5 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4185 TIME TAKEN 11/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.321 (45 19'15") LONG 103.137 (103 8'13") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%)

REMARKS:
 1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 50M NORTH OF FENCE, OVER 10M INTERVAL, STARTING 15M NE OF THE SOUTH END OF HILL ON WEST
 BANK;
 1-60 CATTLE;

406140 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 48.0 WEATHER LT WIND-PJ CLDY
 PHASE E MAP NL1309 SITE 4186 TIME TAKEN 12/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.323 (45 19'22") LONG 103.141 (103 8'27") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 45M UPSTREAM FROM SPRING CREEK, OVER 14M INTERVAL, STARTING BESIDE LEDGE ON WEST BANK;
1-60 CATTLE;

406141 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4187 TIME TAKEN 12/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.353 (45 21'10") LONG 103.212 (103 12'43") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL LOW
SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM FROM FORK, OVER 20M INTERVAL, STARTING 1M EAST OF FENCE;
1-60 CATTLE;

406142 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4188 TIME TAKEN 13/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.353 (45 21'10") LONG 103.212 (103 12'43") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:
1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 50M UPSTREAM FROM FORK, OVER 13M INTERVAL, STARTING 1M EAST OF FENCE;
1-60 CATTLE;

406143 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.5 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4189 TIME TAKEN 14/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.360 (45 21'36") LONG 103.224 (103 13'26") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 40M SOUTH OF WINDMILL, OVER 18M INTERVAL, STARTING WHERE CHANNEL BENDS FROM WEST TO
SOUTH DOWN STREAM;
1-60 HORSES;

406144 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.5 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4190 TIME TAKEN 14/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.360 (45 21'36") LONG 103.225 (103 13'30") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 30M SW OF WINDHILL, OVER 14M INTERVAL, STARTING 30M SOUTH OF LEDGE ON EAST BANK;
1-60 HORSES;

406145 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.5 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4191 TIME TAKEN 15/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.350 (45 21' 0") LONG 103.228 (103 13' 40") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 40M UPSTREAM FROM FORK, OVER 13M INTERVAL, STARTING 4M NORTH OF CAR PATH;
1-60 CATTLE;

406146 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4192 TIME TAKEN 15/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.346 (45 20' 45") LONG 103.239 (103 14' 20") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 3.00 DEPTH(M) 0.50 LEVEL POOLS
SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 40M DOWNSTREAM FROM ROAD, OVER 23M INTERVAL, STARTING AT NORTH END OF POOL, AND MOVING
DOWNSTREAM;
1-60 CATTLE;

406147 TYPE WELL WATER REPLICATE SAMPLER DXH AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4193 TIME TAKEN 16/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.338 (45 20' 16") LONG 103.239 (103 14' 20") CONTAMINANTS AGRICULTURA
SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR U-BN-YL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHO'S/CM) 1760 DISSOLVED OXYGEN (PPH) 5.7
WATER TEMP(C) + 23.7 VISIBILITY(M) 0.50 PH 7.4 LO-ION PAPER
TOTAL ALKALINITY (PPH) 533 P ALKALINITY (PPH) 75 M ALKALINITY (PPH) 523
APPEARANCE MURKY DISCHARGE (L/M) 3.00
PRODUCING HORIZON KGMH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION WIND CASING GALVANIZED PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT
DEPTH TO PROD HORIZON(M) 150 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
WELL DEPTH(M) 150 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN FROM GALVANIZED PIPE AT WELL HEAD, WELL LOCATED 1000M SOUTH OF ROAD, IN PASTURE;
1-60 CATTLE, SHEEP;

406148 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 27.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4194 TIME TAKEN 17/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.334 (45 20' 2") LONG 103.241 (103 14' 27") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 3.00 DEPTH(M) 1.00 LEVEL POOLS
SURFACE GEOL UNIT KGMH RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' MAP, SAMPLE TAKEN 80M UPSTREAM FROM FORK, OVER 12M INTERVAL, STARTING AT WEST END OF POOL;
1-60 CATTLE AND SHEEP IN PASTURE;

406149 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 24.3 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4195 TIME TAKEN 09/20/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
LOCATION: LAT 45.356 (45 21' 21") LONG 103.255 (103 15' 18") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
WATER: WIDTH(M) DEPTH(M) LEVEL DRY
SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR OTHER

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 BAMS BUTTE SE 7.5' MAP, SAMPLE TAKEN 80M EAST OF ROAD, OVER 17M INTERVAL, STARTING 6M NORTH OF FENCE;
1-60 CATTLE;
1-77 ROTTEN SMELL;
1-78 A.W. LIMPERT & BUFFALO, S.D. 57720;

406150 TYPE STREAM SEDIMENT REPLICATE SAMPLER DXH AIR TEMP(C) + 25.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4196 TIME TAKEN 10/20/07/79 RELIEF LOW VEGETATION DECIDUOUS-MODERATE
LOCATION: LAT 45.354 (45 21' 14") LONG 103.258 (103 15' 28") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 4.00 DEPTH(M) 1.00 LEVEL POOLS
SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 BAMS BUTTE SE 7.5' MAP, SAMPLE TAKEN 60M WEST OF ROAD, OVER 12M INTERVAL, STARTING 10M SOUTH OF WHERE STREAM BENDS TO THE
EAST UPSTREAM;
1-60 ORGANICS;
1-78 A.W. LIMPERT & BUFFALO, S.D. 57720;

406151 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4828 TIME TAKEN 09/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE

LOCATION: LAT 45.903 (45 54' 10") LONG 103.605 (103 36' 18") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.10 DEPTH(M) 0.02 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 70

REMARKS:

1-38 LADNER NE 7.5' TOPO SAMPLE TAKEN 25M UPSTREAM OVER A 9M INTERVAL BEGINNING AT THE BRUSH;
 1-60 CATTLE PASTURE;

406153 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4880 TIME TAKEN 08/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.902 (45 54' 7") LONG 103.595 (103 35' 42") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BK-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 LADNER NE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM, STARTING AT INDENTED ENTRANCE OVER A 10M INTERVAL;
 1-60 CATTLE PASTURE;

406154 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4881 TIME TAKEN 11/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.903 (45 54' 10") LONG 103.587 (103 35' 13") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LADNER NE 7.5' TOPO SAMPLE TAKEN 25M UPSTREAM OF FORK OVER A 12M INTERVAL STARTING AT THE BRUSH;
 1-60 CATTLE PASTURE;

406155 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4882 TIME TAKEN 17/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.907 (45 54' 25") LONG 103.582 (103 34' 55") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) Q,Q
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT TFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 80

REMARKS:

1-38 LADNER NE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT THE BEND OVER A 9M INTERVAL;
 1-60 CATTLE AND WHEAT FIELDS;

406156 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4883 TIME TAKEN 16/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.866(45 51' 57") LONG 103.583(103 34' 58") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.01
 WATER: WIDTH(M) 4.00 DEPTH(M) 3.00 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 80

REMARKS:
 1-38 LADNER SE 7.5' TOPO SAMPLE TAKEN 35M FROM TRAIL STARTING AT THE BEND OVER A 10M INTERVAL;
 1-60 TRODDEN BY CATTLE AND HORSES;

406157 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4884 TIME TAKEN 15/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.867(45 52' 1") LONG 103.584(103 35' 2") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.90 DEPTH(M) 0.30 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-BK QDQR OTHER

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF FORK OVER A 12M INTERVAL STARTING AT THE GRASS;
 1-60 HORSE TRODDEN;
 1-77 THE SAND WAS COLLECTED FROM A FAIRLY DRY AREA, THE MUCK WAS H2S IN SMELL;

406158 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4885 TIME TAKEN 09/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.839(45 50' 20") LONG 103.535(103 32' 6") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) DEPTH(M) LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-BK QDQR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF FORK, STARTING AT THE DRY BANK OVER A 10M INTERVAL;
 1-60 TRODDEN BY HORSES;

406159 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4886 TIME TAKEN 16/09/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.843(45 50' 34") LONG 103.550(103 33' 0") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT THE BEND OVER A 10M INTERVAL;

1-60 FINGERS AND CATTLE TRODDEN:

406160 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4887 TIME TAKEN 17/09/07/79 RELIEF MODERATE VEGETATION BRUSH-DENSE
 LOCATION: LAT 45.844 (45 50' 38") LONG 103.549 (103 32' 56") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 LADNER SE 7.5' TOPO SAMPLE TAKEN 25M UPSTREAM STARTING AT INDENTED HILL OVER A 10M INTERVAL;
 1-60 FIELDS AND CATTLE TRODDEN:

406161 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4893 TIME TAKEN 11/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.852 (45 51' 7") LONG 103.406 (103 24' 21") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) Q, QJ
 WATER: WIDTH(M) 1.50 DEPTH(M) 0.30 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES , RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BN-GY QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM FROM TRAIL OVER A 15M INTERVAL BEGINNING AT THE BEND;
 1-60 TRODDEN BY SHEEP AND A NEW SEWER (METAL) PIPE HAS BEEN INSTALLED;
 1-78 TOM KALISIAK & LUDLOW, S.D. 57755:

406163 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4891 TIME TAKEN 17/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.863 (45 51' 46") LONG 103.419 (103 25' 8") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-BN-GY QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD OVER A 14M INTERVAL STARTING AT THE FOOT OF THE HILL
 1-60 SHEEP TRODDEN AND IS OVERGROWN W/CHICK WEED;
 1-78 TOM KALISIAK & LUDLOW, S.D. 57755:

406164 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4888 TIME TAKEN 09/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.864 (45 51' 50") LONG 103.400 (103 24' 0") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) Q, QJ
 WATER: WIDTH(M) 1.50 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES , RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL (%) 50

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM, BEGINNING FROM FORK OVER A 12M INTERVAL;
 1-60 SHEEP AND CATTLE TRODDEN;
 1-78 TOM KALSTRAK & LUDLOW, S.D. 57755;

406165 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4896 TIME TAKEN 16/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.845(45 50' 42") LONG 103.428(103 25' 40") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF FORK OVER A 15M INTERVAL BEGINNING AT THE PLACE OF EASY ENTRY;
 1-60 CATTLE PASTURE;
 1-78 NEIL KETCHUM & LUDLOW, S.D. 57755;

406166 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4890 TIME TAKEN 10/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.875(45 52' 30") LONG 103.417(103 25' 17") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 50

REMARKS:

1-38 LUDLOW 7.5' TOPO SAMPLE TAKEN 25M UPSTREAM, STARTING AT THE BEND OVER A 15M INTERVAL;
 1-60 CATTLE PASTURE;
 1-78 HARRY JOHNSON & LUDLOW, S.D. 57755;

406167 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4895 TIME TAKEN 14/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.842(45 50' 31") LONG 103.431(103 25' 51") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.50 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL (%) 80

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF DAM OVER A 15M INTERVAL BEGINNING AT THE SHALL INLET;
 1-60 CATTLE PASTURE WITH URANIUM TO THE WEST-3KM;
 1-78 NEIL KETCHUM & LUDLOW, S.D. 57755;

406160 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL 1309 SITE 4897 TIME TAKEN 15/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.898 (45 53' 52") LONG 103.418 (103 25' 4") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) 0.01
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.80 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BR-GY ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 50

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OVER A 7M INTERVAL BEGINNING AT THE REEDS;
 1-60 OIL MINE 1 KM WEST;
 1-78 HARRY JOHNSON & LUDLOW, S.D. 57755;

406169 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4806 TIME TAKEN 09/10/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.763 (45 45' 46") LONG 103.495 (103 29' 42") CONTAMINANTS MINING STREAM FLOW(M/SEC) 0.01
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:
 GROWN OVER WITH AN OIL WELL 2KM WEST;
 1-38 LUDLOW 7.5' TOPO SAMPLE TAKEN 25M UPSTREAM BEGINNING AT BEND OVER A 15M INTERVAL;

406170 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL 1309 SITE 4894 TIME TAKEN 13/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.900 (45 54' 0") LONG 103.410 (103 24' 36") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) 0.01
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BK-BN ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 60

REMARKS:
 1-38 EAGLE'S NEST BUTTE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF FENCE OVER 20M INTERVAL STARTING ON THE WEST BANK WITH REEDS;
 1-60 OIL WELL 5KM FROM SITE;
 1-78 NEIL KETCHUM & LUDLOW, S.D. 57755;

406171 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL 1309 SITE 4889 TIME TAKEN 16/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.897 (45 53' 49") LONG 103.380 (103 22' 48") CONTAMINANTS OTHER STREAM FLOW(M/SEC) 0.01
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL NONE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT THE BEND OVER AT 15M INTERVAL;
 1-60 OIL FIELD 1KM AWAY AND MICROWAVE TOWER 2KM AWAY, VERY OVERGROWN-SOIL;
 1-71 SOIL;
 1-78 HARRY JOHNSON & LUDLOW, S.D. 57755;

406172 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4892 TIME TAKEN 16/10/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.906 (45 54' 21") LONG 103.376 (103 22' 33") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) Q, Q1
 WATER: WIDTH(M) 1.00 DEPTH(M) 1.00 LEVEL LOW
 SURFACE GEOL UNIT TPEL RESULTS REQ YES, RELEASED 800 125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN QDOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LUDLOW 7.5' TOPO SAMPLE TAKEN 25M UPSTREAM STARTING AT ACCESSIBLE ENTRY OVER A 16M INTERVAL;
 1-60 OIL FIELD 1KM WEST;
 1-78 MABEL HANSON & LUDLOW, S.D. 57755;

406173 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4803 TIME TAKEN 10/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.784 (45 47' 2") LONG 103.500 (103 30' 0") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPEL RESULTS REQ YES, RELEASED 800 125 BED MATERIAL NONE SAMPLE: COLOR L-GY-BN QDOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 12 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M DOWNSTREAM OF ROAD OVER A 21M INTERVAL;
 1-60 AGRICULTURE AND OIL FIELD 1KM SOUTH;
 1-71 OVERGROWN-SOIL 1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406174 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER -CLEAR
 PHASE E MAP NL1309 SITE 4804 TIME TAKEN 11/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.771 (45 46' 15") LONG 103.544 (103 32' 38") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) Q, Q2
 WATER: WIDTH(M) 6.00 DEPTH(M) 3.00 LEVEL LOW
 SURFACE GEOL UNIT TPEL RESULTS REQ NO, RELEASED 800 125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN QDOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 80

REMARKS:

1-38 LADNER NE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD OVER A 20M INTERVAL BEGINNING AT THE REEDS;
 1-60 CATTLE TRODDEN;

406177 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4802 TIME TAKEN 14/11/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.772 (45 46' 19") LONG 103.597 (103 35' 49") CONTAMINANTS MINING STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 30

REMARKS:
 1-38 LADNER NE 7.5 TOPO, SAMPLE TAKEN 25M FROM ROAD OVER A 26M INTERVAL BEGINNING IN THE DRY PATCH;
 1-60 OIL MINE 2 KM EAST;

406178 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4807 TIME TAKEN 13/11/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE

LOCATION: LAT 45.771 (45 46' 15") LONG 103.565 (103 33' 54") CONTAMINANTS MINING STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.30 DEPTH(M) 0.10 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 50

REMARKS:
 1-38 LADNER SE 7.5 TOPO, SAMPLE TAKEN UPSTREAM OVER A 26M INTERVAL, STARTING AT THE BEND;
 1-60 COV PASTURE AND OIL FIELD QUE EAST - 1KM;

406179 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4805 TIME TAKEN 16/11/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE

LOCATION: LAT 45.783 (45 46' 58") LONG 103.586 (103 35' 9") CONTAMINANTS MINING STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:
 1-38 LADNER SE 7.5 TOPO, SAMPLE TAKEN 25M UPSTREAM FROM BUSH OVER A 23M INTERVAL;
 1-60 OIL MINE 1KM EAST;

406180 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4808 TIME TAKEN 14/11/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE

LOCATION: LAT 45.773 (45 46' 22") LONG 103.567 (103 34' 1") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.10 DEPTH(M) 0.10 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:
 1-38 LADNER SE 7.5 TOPO, SAMPLE TAKEN UPSTREAM BEGINNING AT THE TREE OVER A 26M INTERVAL;
 1-60 OIL FIELD QUE EAST AND AGRICULTURE AND ALKALI EVAPORITES;
 1-71 MIXTURE OF CLAY AND SAND;

406181 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4809 TIME TAKEN 16/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.777 (45 46'37") LONG 103.531 (103 31'51") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL NONE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN ABOVE STOCK POND OVER A 20M INTERVAL STARTING AT THIRD ROW:
 1-60 OIL FIELD 1KM EAST AND STREAM IS IN ALFALFA FIELD:
 1-71 STREAM IS NOW IN FIELD-SOIL:

406182 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4810 TIME TAKEN 16/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.776 (45 46'33") LONG 103.531 (103 31'51") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 11 ORGANIC MATERIAL(%) 30

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF FORK OVER A 16M INTERVAL BEGINNING AT BEND:
 1-60 OIL FIELD 1KM EAST AND IS IN CHICKWEED FIELD:

406183 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4811 TIME TAKEN 17/11/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.776 (45 46'33") LONG 103.515 (103 30'54") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 2 KM FROM ROAD OVER A 20M INTERVAL STARTING IN THE MIDDLE OF BEND:
 1-60 OIL WELL 1KM AWAY AND CATTLE TRODDEN:

406184 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4812 TIME TAKEN 09/12/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.852 (45 51' 7") LONG 103.437 (103 26'13") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.01
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.50 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REG YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BK-BN ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 50

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF BEND BEGINNING AT THE BEND OVER A 20 M INTERVAL:

1-60 SHEEP AND CATTLE TRODDEN;
1-78 TOM KALISIAK & LUDLOW, S.D. 57755;

406185 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4813 TIME TAKEN 10/12/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.853(45 51'10") LONG 103.440(103 26'24") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
WATER: WIDTH(M) 0.30 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BK-BN QDOR H25

SEDIMENT INFORMATION:
SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 70 ORGANIC MATERIAL (%) 50

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM BEGINNING AT THE REEDS OVER A 16M INTERVAL;
1-60 SHEEP AND CATTLE TRODDEN;
1-78 TOM KALISIAK & LUDLOW, S.D. 57755;

406186 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4814 TIME TAKEN 10/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.850(45 51' 0") LONG 103.453(103 27'10") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 0.20 DEPTH(M) 0.10 LEVEL POOLS
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY QDOR NONE

SEDIMENT INFORMATION:
SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 70 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM BEGINNING AT FENCE OVER A 20M INTERVAL;
1-60 CATTLE TRODDEN;
1-78 HAROLD FEIST & LUDLOW, S.D. 57755;

406187 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4815 TIME TAKEN 11/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.849(45 50'56") LONG 103.450(103 27' 0") CONTAMINANTS AGR, CULTURA STREAM FLOW(M/SEC) Q, QJ
WATER: WIDTH(M) 0.20 DEPTH(M) 0.20 LEVEL LOW
SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-BK QDOR H25

SEDIMENT INFORMATION:
SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 11 ORGANIC MATERIAL (%) 50

REMARKS:

1-38 LUDLOW 7.5' TOPO SAMPLE TAKEN 25M UPSTREAM BEGINNING BELOW HILL OVER A 22M INTERVAL;
1-60 TRODDEN BY CATTLE AND OIL WELL TO THE EAST;
1-78 HAROLD FEIST & LUDLOW, S.D. 57755;

406188 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4816 TIME TAKEN 09/12/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.853(45 51'10") LONG 103.451(103 27' 3") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.01
WATER: WIDTH(M) 0.50 DEPTH(M) 0.50 LEVEL LOW

SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 50

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OVER A 25M INTERVAL STARTING AT THE BEND;
1-60 CATTLE TRODDEN;
1-78 HAROLD FEIST & LUDLOW, S.D. 57755;

406189 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4817 TIME TAKEN 13/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.784(45 47' 2") LONG 103.624(103 37' 26") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) 0.02

WATER: WIDTH(M) 2.00 DEPTH(M) 1.00 LEVEL LOW

SURFACE GEOL UNIT KGMA RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OVER A 20M INTERVAL BEGINNING AT BEND WITH CHICK WEED;
1-60 5 KM NORTH OF OIL FIELD;
1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406190 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4818 TIME TAKEN 14/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.768(45 46' 4") LONG 103.624(103 37' 26") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)

WATER: WIDTH(M) DEPTH(M) LEVEL DRY

SURFACE GEOL UNIT KGMA RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 15 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 LADNER 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OVER A 12M INTERVAL BEGINNING AT THE BRUSH;
1-60 OIL WELLS WITHIN A 1 TO 2KM RADIUS;
1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406191 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 32.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4819 TIME TAKEN 15/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.769(45 46' 8") LONG 103.622(103 37' 19") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) STAG

WATER: WIDTH(M) 0.30 DEPTH(M) 0.20 LEVEL POOLS

SURFACE GEOL UNIT KGMA RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM BEGINNING AT THE BUSHES OVER A 15M INTERVAL;
1-60 OIL FIELDS WITHIN 1KM AREA;
1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406192 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4820 TIME TAKEN 16/12/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.790(45 47'24") LONG 103.621(103 37'15") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 0.30 DEPTH(M) 0.30 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM BEGINNING AT CHICK WEED PATCH OVER A 18M INTERVAL;
 1-60 OIL FIELDS WITHIN 2 TO 1KM IN RADIUS;
 1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406193 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4821 TIME TAKEN 16/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.802(45 48' 7") LONG 103.620(103 37'12") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) 0.03
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL POOLS
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM, BEGINNING AT THE SAGE BRUSH OVER A 18M INTERVAL;
 1-60 OIL FIELDS IN A 2KM RADIUS;
 1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406194 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4822 TIME TAKEN 17/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.804(45 48' 14") LONG 103.604(103 36'14") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL NONE SAMPLE: COLOR L-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD OVER A 14M INTERVAL BEGINNING AT CHICK WEED;
 1-60 CATTLE PASTURE AND OIL FIELDS WITHIN 2KM RADIUS;
 1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406195 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4823 TIME TAKEN 16/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.797(45 47'49") LONG 103.603(103 36'10") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) 0.02
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.30 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL PEBBLE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD OVER A 16M INTERVAL STARTING AT LOW PLACE OF ENTRY;
 1-60 OIL FIELDS WITHIN 2KM RADIUS;
 1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406196 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4824 TIME TAKEN 11/12/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.794 (45 47' 38") LONG 103.595 (103 35' 42") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ YES, RELEASED 800125 BED MATERIAL NONE SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 05

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF TRAIL BEGINNING AT COTONWOOD? TREE OVER A 20M INTERVAL;
 1-60 CATTLE PASTURE AND OIL FIELDS IN A 2KM RADIUS;
 1-71 SOIL;
 1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406197 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4825 TIME TAKEN 17/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.784 (45 47' 2") LONG 103.609 (103 36' 32") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LADNER SE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OVER A 16M INTERVAL BEGINNING AT THE TALL GRASS;
 1-60 OIL FIELDS WITHIN 2KM RADIUS;
 1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406198 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4826 TIME TAKEN 16/12/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.782 (45 46' 55") LONG 103.607 (103 36' 25") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ YES, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LADNER 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OVER A 17M INTERVAL BEGINNING AT SIDE OF CLIFF;
 1-60 CATTLE TRODDEN, OIL FIELDS WITHIN 2KM RADIUS AND IS HEAVILY OVERGROWN;
 1-78 JIM CLARKSON & LUDLOW, S.D. 57755;

406199 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR

PHASE E MAP NL1309 SITE 4827 TIME TAKEN 09/13/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.692(45 41'31") LONG 103.657(103 39'25") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC) 0.01
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 70 ORGANIC MATERIAL(%) 30

REMARKS:
 1-38 LAHTI BUTTE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT BEND OVER 17M INTERVAL;
 1-60 OIL FIELD .3KM SOUTH OF SITE;
 1-78 DON MARTIAN & BUFFALO, S.D. 57720;

406200 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4828 TIME TAKEN 10/13/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.691(45 41'27") LONG 103.660(103 39'36") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ YES ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 70 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LAHTI BUTTE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT SAGE BRUSH OVER 20M INTERVAL;
 1-60 OIL FIELD .4KM SOUTH;
 1-78 DON MARTIAN & BUFFALO, S.D. 57720;

406202 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4829 TIME TAKEN 11/13/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.828(45 49'40") LONG 103.509(103 30'32") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 LADNER S.E. 7.5' TOPO SAMPLE TAKEN 25M UPSTREAM, BEGINNING 20M FROM TREE OVER A 21M INTERVAL;
 1-60 OVERGROWN BY GRASS AND REEDS AND 15' CATTLE TRODDEN;

406203 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4830 TIME TAKEN 12/13/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.806(45 48'21") LONG 103.471(103 28'15") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 15.00 DEPTH(M) 0.01 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 60

REMARKS:
 1-38 LUDLOW 7.5' TOPO SAMPLE TAKEN 25M UPSTREAM STARTING AT TREE OVER A 16M INTERVAL;

1-60 CATTLE TRODDEN;
1-60 JOHN BROWN & LUDLOW, S.D. 57755;

406204 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 29.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4831 TIME TAKEN 13/13/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.794 (45 47' 38") LONG 103.493 (103 29' 34") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.20
 WATER: WIDTH(M) 3.00 DEPTH(M) 1.20 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-YL-BN ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 70 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 45M DOWNSTREAM OF DAM OVER A 15M INTERVAL STARTING AT ACCESSIBLE POINT OF ENTRY ON EAST BANK;
 1-60 CATTLE TRODDEN;
 1-60 JOHNBROWN & LUDLOW, S.D. 57755;

406205 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4832 TIME TAKEN 14/13/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.750 (45 45' 0") LONG 103.484 (103 29' 2") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR H2S
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM, BEGINNING AT BEND OVER A 12M INTERVAL;
 1-60 CATTLE PASTURE AND ALKALI EVAPORITES;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406206 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4833 TIME TAKEN 15/13/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.755 (45 45' 18") LONG 103.467 (103 28' 1") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BN-GY ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM BEGINNING AT THICK WEED OVER A 16M INTERVAL;
 1-60 CATTLE TRODDEN AND ALKALI EVAPORITES;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406207 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4834 TIME TAKEN 16/13/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.759 (45 45' 32") LONG 103.468 (103 28' 4") CONTAMINANTS OIL FIELD STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY QDOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM BEGINNING AT TREE OVER A 16M INTERVAL;
 1-60 OIL FIELDS WITHIN 1KM AREA AND CATTLE PASTURE AND ALKALI EVAPORITES;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406208 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4835 TIME TAKEN 10/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.759 (45 45'32") LONG 103.441 (103 26'27") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY QDOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM BEGINNING AT BEND OVER A 15M INTERVAL;
 1-60 SOIL AND CATTLE TRODDEN;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406209 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4836 TIME TAKEN 10/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.759 (45 45'32") LONG 103.443 (103 26'34") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN QDOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM BEGINNING AT TREE OVER A 15M INTERVAL;
 1-60 SOIL AND CATTLE TRODDEN;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406210 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4837 TIME TAKEN 11/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.780 (45 46'48") LONG 103.449 (103 26'56") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY QDOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT BEND OVER A 16M INTERVAL;
 1-60 SOIL AND WHEAT FIELDS AND CATTLE;

1-78 JOHN BROWN & LUDLOW, S.D. 57755

406211 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4838 TIME TAKEN 14/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.766 (45 45' 57") LONG 103.455 (103 27' 18") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT TREE AT SLIGHT BEND OVER A 16M INTERVAL;
 1-60 SOIL AND WHEAT FIELDS;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406212 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4840 TIME TAKEN 14/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.764 (45 45' 50") LONG 103.456 (103 27' 21") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT BEND OVER A 15M INTERVAL;
 1-60 SOIL AND WHEAT FIELDS;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406213 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4841 TIME TAKEN 16/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.774 (45 46' 26") LONG 103.470 (103 28' 12") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT BEND OVER A 16M INTERVAL;
 1-60 FIELDS AND SOIL;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406214 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4842 TIME TAKEN 16/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.786 (45 47' 9") LONG 103.427 (103 25' 37") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT BEND OVER A 17M INTERVAL;
 1-60 WHEAT FIELDS AND SOIL;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406215 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4843 TIME TAKEN 11/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.781 (45 46' 51") LONG 103.421 (103 25' 15") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 80

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF DAM OVER A 16M INTERVAL STARTING AT ACCESSIBLE POINT OF ENTRY;
 1-60 CATTLE TRODDEN;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406216 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4844 TIME TAKEN 12/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.776 (45 46' 33") LONG 103.421 (103 25' 15") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 80

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT ACCESSIBLE POINT OF ENTRY OVER A 17M INTERVAL;
 1-60 WHEAT AND CATTLE FIELDS;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406217 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4845 TIME TAKEN 14/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.768 (45 46' 4") LONG 103.422 (103 25' 19") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BK-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 40

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OVER A 17M INTERVAL STARTING AT ROCK;
 1-60 WHEAT FIELDS AND CATTLE;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406218 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4846 TIME TAKEN 11/17/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.775(45 46' 30") LONG 103.434(103 26' 2") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) 0.02
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG YES ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BR-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 40

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM STARTING AT GRASS OVER A 17M INTERVAL;
 1-60 WHEAT FIELDS AND CATTLE;
 1-78 JOHN BROWN & LUDLOW, S.D. 57755;

406219 TYPE WELL WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4847 TIME TAKEN 11/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.802(45 48' 7") LONG 103.428(103 25' 40") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPTR RESULTS REG YES ,RELEASED 800125 SAMPLE: COLOR - -BN ODOR H2S

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 190 DISSOLVED OXYGEN(PPM) 7.6
 WATER TEMP(C) + 10.8 VISIBILITY(M) 0.30 PH 8.8 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 723 P ALKALINITY(PPM) 200 M ALKALINITY(PPM) 720
 APPEARANCE MURKY DISCHARGE(L/M) 20.00
 PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 7 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE
 DEPTH TO PROD HORIZON(M) 36 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH(M) 36 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM PLASTIC PIPE .1M FROM WELL HEAD;
 1-60 CATTLE PASTURE AND PLASTIC PIPE;
 1-78 KAROLL HAM & LUDLOW, S.D. 57755;

406220 TYPE SPRING WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4848 TIME TAKEN 12/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.837(45 50' 13") LONG 103.403(103 24' 10") CONTAMINANTS AGRICULTURA
 SURFACE GEOL UNIT TPFL RESULTS REG YES ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3610 DISSOLVED OXYGEN(PPM) 2.2
 WATER TEMP(C) + 12.8 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 560 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 540
 APPEARANCE CLEAR DISCHARGE(L/M) 3.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE POWER CLASSIFICATION CASING PIPE COMPOSITION
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK USE PUMPING FREQUENCY
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION

WELL DEPTH(M)

CONFIDENCE OF WELL DEPTH

SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM PLASTIC PIPE LEADING INTO TROUGH, THE PLASTIC PIPE RUNS 45M UNDERGROUND FROM SPRING;
 1-60 PLASTIC PIPE AND COW PASTURE;
 1-78 KAROLL HAM & LUDLOW, S.D. 57755;

406221 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4849 TIME TAKEN 11/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.839 (45 50' 20") LONG 103.383 (103 22' 58") CONTAMINANTS AGRICULTURAL STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 30

REMARKS:

1-38 LUDLOW 7.5' TOPO SAMPLE TAKEN 128M DOWNSTREAM OF DAM OVER A 17M INTERVAL, STARTING AT EXPOSED AREA;
 1-60 CATTLE TRODDEN;
 1-78 KAROLLE HAM & LUDLOW, S.D. 57755;

406222 TYPE WELL WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 30.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4850 TIME TAKEN 14/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.814 (45 48' 50") LONG 103.409 (103 24' 32") CONTAMINANTS MINING SAMPLE: COLOR -CL ODOR H2S
 SURFACE GEOL UNIT TPFL RESULTS REG YES, RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 650 DISSOLVED OXYGEN(PPM) 4.1
 WATER TEMP(C) + 11.4 VISIBILITY(M) CLEAR PH 8.8 LO-TON PAPER
 TOTAL ALKALINITY(PPM) 400 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 400
 APPEARANCE CLEAR DISCHARGE(L/M) 20.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK BEFORE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) 66 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 66 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 LUDLOW 7.5' TOPO MAP, SAMPLE TAKEN 5M FROM REAR DOOR OF HOUSE;
 1-60 URANIUM AND OIL FIELDS 2KM NORTH;
 1-78 KAROLLE HAM & LUDLOW, S.D. 57755;

406223 TYPE WELL WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4851 TIME TAKEN 16/19/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.819 (45 49' 8") LONG 103.383 (103 22' 58") CONTAMINANTS MINING SAMPLE: COLOR -CL ODOR NONE
 SURFACE GEOL UNIT TPFL RESULTS REG YES, RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 470 DISSOLVED OXYGEN(PPM) 6.3

WATER TEMP(C) + 13.7 VISIBILITY(M) CLEAR PH 8.2 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 230 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 236
 APPEARANCE CLEAR DISCHARGE(L/H) 30.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK BEFORE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) 15 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 15 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM GALVANIZED HYDRANT, WHICH IS LOCATED 50M EAST OF HOUSE;
 1-60 OIL FIELDS AND URANIUM MINES 2-4KM NORTH AND GALVANIZED PIPE;
 1-78 HICK WELCH & LUDLOW, S.D. 57755;

406224 TYPE WELL WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 30.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4852 TIME TAKEN 15/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.821(45 49'15") LONG 103.382(103 22'55") CONTAMINANTS MINING
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 7250 DISSOLVED OXYGEN(PPM) 4.6
 WATER TEMP(C) + 12.1 VISIBILITY(M) CLEAR PH 7.9 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 455 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 440
 APPEARANCE CLEAR DISCHARGE(L/H) 20.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING PLASTIC PIPE COMPOSITION PLASTIC
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK BEFORE USE HOUSE/STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) 15 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 15 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM WELL HEAD, WHICH IS LOCATED 3M FROM HOUSE;
 1-60 PLASTIC PIPE AND OIL FIELDS IN A 2KM RADIUS;
 1-78 HICK WELCH & LUDLOW, S.D. 57755;

406225 TYPE SPRING WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4853 TIME TAKEN 18/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.870(45 52'12") LONG 103.483(103 28'58") CONTAMINANTS MINING
 SURFACE GEOL UNIT TATR RESULTS REQ NO, RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 630 DISSOLVED OXYGEN(PPM) 5.9
 WATER TEMP(C) + 16.3 VISIBILITY(M) CLEAR PH 7.7 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 312 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 314
 APPEARANCE CLEAR DISCHARGE(L/H) 3.00
 PRODUCING HORIZON TATR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE POWER CLASSIFICATION CASING PIPE COMPOSITION

METERS FROM HEAD WITH RESPECT TO PRESSURE TANK USE PUMPING FREQUENCY
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM PLASTIC PIPE LOCATED WITHIN A-FRAME;
 1-60 URANIUM MINES TO THE SOUTH 2-3KM AND PLASTIC PIPE;

406226 TYPE SPRING WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4854 TIME TAKEN 10/19/07/79 RELIEF GENTLE VEGETATION CONIFER-MODERATE
 LOCATION: LAT 45.874 (45 52' 26") LONG 103.487 (103 29' 13") CONTAMINANTS MINING
 SURFACE GEOL UNIT TPTR RESULTS REG NO, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 290 DISSOLVED OXYGEN (PPH) 7.1
 WATER TEMP(C) + 10.6 VISIBILITY (M) CLEAR PH 8.3 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 290 P ALKALINITY (PPH) <5 M ALKALINITY (PPH) 296
 APPEARANCE CLEAR DISCHARGE (L/M) 20.00
 PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE POWER CLASSIFICATION CASING PIPE COMPOSITION
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK USE PUMPING FREQUENCY
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM GALVANIZED PIPE LEADING FROM SPRING;
 1-60 URANIUM MINES AND OIL FIELDS WITHIN A 1KM RADIUS;

406227 TYPE WELL WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4855 TIME TAKEN 10/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.819 (45 49' 8") LONG 103.439 (103 26' 20") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPTR RESULTS REG YES, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1620 DISSOLVED OXYGEN (PPH) 2.0
 WATER TEMP(C) + 19.0 VISIBILITY (M) CLEAR PH 9.0 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 519 P ALKALINITY (PPH) 96 M ALKALINITY (PPH) 496
 APPEARANCE CLEAR DISCHARGE (L/M) 25.00
 PRODUCING HORIZON TPTL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK BEFORE USE STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) 58 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 58 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM WELL HOSE LEADING INTO TROUGH AT CATTLE BARN;
 1-60 SUBMERSIBLE PUMP AND STEEL PIPE WITH RUBBER HOSE LEADING OFF;
 1-78 WELL KETCHUM & LUDLOW, S.D. 57255;

406229 TYPE SPRING WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4856 TIME TAKEN 15/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.826(45 49' 33") LONG 103.455(103 27' 18") CONTAMINANTS MINING
 SURFACE GEOL UNIT TPTR RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR L-BN-CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 710 DISSOLVED OXYGEN(PPM) 1.5
 WATER TEMP(C) + 16.4 VISIBILITY(M) CLEAR PH 7.3 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 430 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 416
 APPEARANCE MURKY DISCHARGE(L/M) 20.00
 PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE POWER CLASSIFICATION CASING PIPE COMPOSITION
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK USE PUMPING FREQUENCY
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM IMPROVED SPRING LOCATED OFF TRAIL;
 1-60 URANTUM MINE TO THE NORTH-1KH;
 1-78 NEIL KETCHUM & LUDLOW, S.D. 57755;

406230 TYPE WELL WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4857 TIME TAKEN 14/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.813(45 48' 46") LONG 103.437(103 26' 13") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPTR RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1220 DISSOLVED OXYGEN(PPM) 3.3
 WATER TEMP(C) + 22.7 VISIBILITY(M) CLEAR PH 7.9 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 500 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 490
 APPEARANCE CLEAR DISCHARGE(L/M) 20.00
 PRODUCING HORIZON TPL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK AFTER USE HOUSEHOLD PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) 58 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 58 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM GALVANIZED PIPE INSIDE HOUSE;
 1-60 GALVANIZED PIPE, SUBMERSIBLE PUMP;
 1-78 NEIL KETCHUM & LUDLOW, S.D. 57755;

406231 TYPE WELL WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4858 TIME TAKEN 14/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.816(45 48' 57") LONG 103.447(103 26' 49") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPTR RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR L-RD-BN ODOR H2S

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1820 DISSOLVED OXYGEN(PPM) 2.4

WATER TEMP(C) + 18.6 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER
 TOTAL ALKALINITY(PPH) 600 P ALKALINITY(PPH) 140 H ALKALINITY(PPH) 650
 APPEARANCE MURKY DISCHARGE(L/M) 25.00
 PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION WIND CASING STEEL PIPE COMPOSITION STEEL
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) 60 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 60 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM STEEL PIPE LEADING FROM WELL;
 1-60 URANIUM AND OIL WELLS TO THE EAST-2KM;
 1-78 NEAL KETCHUM & LUDLOW S.D. 57755;

406234 TYPE WELL WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4862 TIME TAKEN 16/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.817(45 49' 1") LONG 103.438(103 26' 16") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR -CL QDQR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2440 DISSOLVED OXYGEN(PPH) 2.7
 WATER TEMP(C) + 17.1 VISIBILITY(M) CLEAR PH 7.4 LO-ION PAPER
 TOTAL ALKALINITY(PPH) 770 P ALKALINITY(PPH) <5 H ALKALINITY(PPH) 712
 APPEARANCE CLEAR DISCHARGE(L/M) 25.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) 50 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 50 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN AT STEEL PIPE LEADING OUT OF WELL;
 1-60 SUBMERSIBLE PIPE AND HOLDING TANK BELOW;
 1-78 NEIL KETCHUM & LUDLOW, S.D. 57755;

406236 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4859 TIME TAKEN 15/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.812(45 48' 43") LONG 103.431(103 25' 51") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPTR RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-WH QDQR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 50M UPSTREAM OF FORK OVER A 16M INTERVAL BEGINNING AT TALL GRASS;
 1-60 CATTLE PASTURE IN WINTER;
 1-78 NEIL KETCHUM & LUDLOW, S.D. 57755;

406237 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4860 TIME TAKEN 16/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.814 (45 48' 50") LONG 103.430 (103 25' 48") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-BK ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 50

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF FORK OVER A 17M INTERVAL STARTING AT FORK;
 1-60 CATTLE PASTURE IN WINTER;
 1-78 NEIL KETCHUM & LUDLOW, S.D. 57755;

406238 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4861 TIME TAKEN 12/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.815 (45 48' 54") LONG 103.420 (103 25' 12") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.30 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 80

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 150M UPSTREAM OF FORK STARTING AT TALL GRASS OVER A 17M INTERVAL;
 1-60 CATTLE PASTURE IN WINTER;
 1-78 NEIL KETCHUM & LUDLOW, S.D. 57755;

406240 TYPE SPRING WATER REPLICATE SAMPLER JWB AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4863 TIME TAKEN 09/21/07/79 RELIEF GENTLE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.830 (45 49' 48") LONG 103.450 (103 27' 0") CONTAMINANTS MINING
 SURFACE GEOL UNIT TPTR RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 560 DISSOLVED OXYGEN(PPM) 6.0
 WATER TEMP(C) + 13.9 VISIBILITY(M) CLEAR PH 7.8 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 380 P ALKALINITY(PPM) 25 M ALKALINITY(PPM) 385
 APPEARANCE CLEAR DISCHARGE(L/M) 16.00 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON TPTR CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE POWER CLASSIFICATION CASING PIPE COMPOSITION
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK USE PUMPING FREQUENCY
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN INSIDE A-FRAME WHERE THERE ARE TWO WOODEN VATS, THE WATER WAS TAKEN FROM PLASTIC PIPE
 1-60 URANIUM MINE TO THE NORTH-1KM AND HOLDING TANK;
 1-78 NEIL KETCHUM & LUDLOW, S.D. 57755;

406241 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP (C) +30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4864 TIME TAKEN 10/21/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.816 (45 48'57") LONG 103.442 (103 26'31") CONTAMINANTS AGRICULTURA STREAM FLOW (M/SEC)
 SURFACE GEOL UNIT TPTR RESULTS REQ YES, RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR L-WH-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 10

REMARKS:
 1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM BEGINNING AT TALL GRASS OVER A 17M INTERVAL;
 1-60 CATTLE TROUEN;
 1-78 NEAL KETCHUM & LUDLOW, S.D. 57755;

406242 TYPE SPRING WATER REPLICATE SAMPLER JWB AIR TEMP (C) +30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4865 TIME TAKEN 12/21/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.843 (45 50'34") LONG 103.489 (103 28' 8") CONTAMINANTS MINING
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1710 DISSOLVED OXYGEN (PPH) 5.4
 WATER TEMP (C) +20.2 VISIBILITY (M) CLEAR PH 7.8 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 692 P ALKALINITY (PPH) <5 M ALKALINITY (PPH) 710
 APPEARANCE CLEAR DISCHARGE (L/M) 3.00
 PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE POWER CLASSIFICATION CASING PIPE COMPOSITION
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK USE PUMPING FREQUENCY
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 LUDLOW 7.5' TOPO SAMPLE TAKEN FROM GALVANIZED PIPE INSIDE A-FRAME;
 1-60 URANIUM MINE AND OIL WELLS TO THE NORTH-1KM;

406243 TYPE SPRING WATER REPLICATE SAMPLER JWB AIR TEMP (C) +31.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4866 TIME TAKEN 15/21/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.843 (45 50'34") LONG 103.470 (103 28'12") CONTAMINANTS MINING
 SURFACE GEOL UNIT TPTR RESULTS REQ NO, RELEASED 800125 SAMPLE: COLOR V-BN-CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1700 DISSOLVED OXYGEN (PPH) 5.1
 WATER TEMP (C) +21.6 VISIBILITY (M) 0.50 PH 7.8 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 650 P ALKALINITY (PPH) <5 M ALKALINITY (PPH) 680
 APPEARANCE CLEAR DISCHARGE (L/M) 0.10
 PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE POWER CLASSIFICATION CASING PIPE COMPOSITION
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK USE PUMPING FREQUENCY
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM SEEPAGE OUT OF SIDE OF HILL;
1-60 SOIL AND URANIUM AND OIL WELLS TO THE NORTH;

406244 TYPE SPRING WATER REPLICATE SAMPLER JWB AIR TEMP(C) +30.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4867 TIME TAKEN 14/21/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.857(45 51'25") LONG 103.489(103 29'20") CONTAMINANTS NONE
SURFACE GEOL UNIT TPTR RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR - -CL QDQR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 430 DISSOLVED OXYGEN(PPH) 71.5
WATER TEMP(C) + 14.1 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER
TOTAL ALKALINITY(PPH) 340 P ALKALINITY(PPH) <5 M ALKALINITY(PPH) 332
APPEARANCE CLEAR DISCHARGE(L/M) 15.00
PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M) 1 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
WELL DEPTH(M) 1 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM GALVANIZED PIPE LEADING INTO TROUGH;
1-60 CISTERN BELOW PIPE AND GALVANIZED PIPE;

406245 TYPE SPRING WATER REPLICATE SAMPLER JWB AIR TEMP(C) +31.0 WEATHER CALM-CLEAR
PHASE E MAP NL1309 SITE 4868 TIME TAKEN 16/21/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.842(45 50'31") LONG 103.483(103 28'58") CONTAMINANTS OTHER
SURFACE GEOL UNIT TPTR RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR - -CL QDQR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 7730 DISSOLVED OXYGEN(PPH) 71.4
WATER TEMP(C) + 13.2 VISIBILITY(M) 1.00 PH 7.8 LO-ION PAPER
TOTAL ALKALINITY(PPH) 830 P ALKALINITY(PPH) <5 M ALKALINITY(PPH) 885
APPEARANCE CLEAR DISCHARGE(L/M) 0.30
PRODUCING HORIZON TPTR CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION GALVANIZED
METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M) 1 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
WELL DEPTH(M) 1 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN FROM GALVANIZED PIPE;
1-60 WATER RUNS ONTO PLATFORM INTO GROUND AND OIL WELL .1KM TO THE EAST;

406246 TYPE SPRING WATER REPLICATE SAMPLER JWB AIR TEMP(C) +38.0 WEATHER CALM-PT C_DY
PHASE E MAP NL1309 SITE 4869 TIME TAKEN 16/21/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.797(45 47'49") LONG 103.451(103 27' 3") CONTAMINANTS OTHER

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125

SAMPLE: COLOR D-OR-BN ODOR OTHER

GENERAL WATER INFORMATION:

TREATMENT NONE	CONDUCTIVITY(MICROMHOS/CM)	2230	DISSOLVED OXYGEN(PPM)	11.3
WATER TEMP(C) 74.2	INSTABILITY(M)	0.10	PH 7.5	LD-10N PAPER
TOTAL ALKALINITY(PPM) 1140	P ALKALINITY(PPM)	<5	M ALKALINITY(PPM)	1139
APPEARANCE MURKY	DISCHARGE(L/M)	2.00		
PRODUCING HORIZON TPFL	CONFIDENCE PROBABLE		SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE DUG	POWER CLASSIFICATION ARTESIAN	CASING NONE	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD	WITH RESPECT TO PRESSURE TANK NONE	USE STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON(M) 1	CONFIDENCE OF PRODUCING DEPTH HIGH	SOURCE OF PRODUCING INFORMATION	GEOL. INFERENCE
WELL DEPTH(M) 1	CONFIDENCE OF WELL DEPTH HIGH	SOURCE OF DEPTH INFORMATION	GEOL. INFERENCE

REMARKS:

1-38 LUDLOW 7.5' TOPO QUAD, SAMPLE COLLECTED FROM SPRING (PIPE RUNNING FROM SPRING) WHICH IS IN THE MIDDLE OF NOWHERE;
 1-60 WATER HAS PICKED UP TRACE ELEMENTS FROM LIGNITE AND COLORATION;

406253	TYPE STREAM SEDIMENT	REPLICATE	SAMPLER JWB	AIR TEMP(C) + 30.0	WEATHER LT WIND-CLEAR
	PHASE E MAP NL1309	SITE 4875	TIME TAKEN 17/23/07/79	RELIEF GENTLE	VEGETATION GRASS-MODERATE
	LOCATION: LAT 45.740 (45 44' 24")	LONG 103.423 (103 25' 22")		CONTAMINANTS AGRICULTURA	STREAM FLOW(M/SEC) Q, Q2
				WATER: WIDTH(M) 1.00	DEPTH(M) 1.00
					LEVEL LOW
	SURFACE GEOL UNIT KGMM	RESULTS REQ YES	,RELEASED 800125	BED MATERIAL SILT	SAMPLE: COLOR M-BK-BN
					ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 HAY CREEK 7.5' TOPO SAMPLE TAKEN 25M UPSTREAM STARTING AT EASY POINT OF ENTRY OVER A 22M INTERVAL;
 1-60 CATTLE TRODDEN;
 1-78 WILLIAM TURBIVILLE & LUDLOW, S.D. 57755;

406254	TYPE STREAM SEDIMENT	REPLICATE	SAMPLER JWB	AIR TEMP(C) + 30.0	WEATHER LT WIND-CLEAR
	PHASE E MAP NL1309	SITE 4874	TIME TAKEN 15/23/07/79	RELIEF GENTLE	VEGETATION GRASS-MODERATE
	LOCATION: LAT 45.749 (45 44' 56")	LONG 103.632 (103 37' 55")		CONTAMINANTS OIL FIELD	STREAM FLOW(M/SEC) Q, Q1
				WATER: WIDTH(M) 0.50	DEPTH(M) 0.50
					LEVEL LOW
	SURFACE GEOL UNIT KGMM	RESULTS REQ NO	,RELEASED 800125	BED MATERIAL SILT	SAMPLE: COLOR M-BN-GY
					ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 11 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LAHTI BUTTE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM BEGINNING AT GRASSY AREA NEAR BEND OVER A 21M INTERVAL;
 1-60 STREAM LOCATED IN BUFFALO OIL FIELD;

406255	TYPE STREAM SEDIMENT	REPLICATE	SAMPLER JWB	AIR TEMP(C) + 30.0	WEATHER LT WIND-CLEAR
	PHASE E MAP NL1309	SITE 4873	TIME TAKEN 16/23/07/79	RELIEF GENTLE	VEGETATION GRASS-MODERATE
	LOCATION: LAT 45.836 (45 50' 9")	LONG 103.681 (103 40' 51")		CONTAMINANTS MINING	STREAM FLOW(M/SEC) NONE
				WATER: WIDTH(M) 1.00	DEPTH(M) 0.50
					LEVEL LOW
	SURFACE GEOL UNIT KGMM	RESULTS REQ YES	,RELEASED 800125	BED MATERIAL SILT	SAMPLE: COLOR M-BK-BN
					ODOR NONE

--- -- -- -- -- SEDIMENT INFORMATION:

--- -- -- -- -- SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

--- -- -- -- -- REMARKS:

--- -- -- -- -- 1-38 LADNER 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OVER A 20M INTERVAL STARTING AT THE BEND;
 --- -- -- -- -- 1-60 CATTLE TRODDEN;
 --- -- -- -- -- 1-78 GLEN MILLER & LADNER, S.D. 57753;

406256 TYPE STREAM SEDIMENT REPLICATE SAMPLER JWB AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 --- -- -- -- -- PHASE E MAP NL 1309 SITE 4872 TIME TAKEN 10/23/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 --- -- -- -- -- LOCATION: LAT 45.837(45 50' 13") LONG 103.680(103 40' 48") CONTAMINANTS MINING STREAM FLOW(M/SEC) NONE
 --- -- -- -- -- WATER: WIDTH(M) 1.00 DEPTH(M) 1.00 LEVEL LOW
 --- -- -- -- -- SURFACE GEOL UNIT KGMH RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-RD-BN ODOR NONE

--- -- -- -- -- SEDIMENT INFORMATION:

--- -- -- -- -- SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

--- -- -- -- -- REMARKS:

--- -- -- -- -- 1-38 LADNER 7.5' TOPO, SAMPLE TAKEN 125M UPSTREAM OVER A 20M INTERVAL BEGINNING AT THE GRASSY BEND;
 --- -- -- -- -- 1-60 CATTLE TRODDEN;
 --- -- -- -- -- 1-78 GLEN MILLER & LADNER, S.D. 57753;

406259 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 27.0 WEATHER LT WIND-RAINY
 --- -- -- -- -- PHASE E MAP NL 1309 SITE 4601 TIME TAKEN 10/07/07/79 RELIEF MODERATE VEGETATION GRASS-DENSE
 --- -- -- -- -- LOCATION: LAT 45.888(45 53' 16") LONG 103.503(103 30' 10") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 --- -- -- -- -- WATER: WIDTH(M) 0.50 DEPTH(M) 0.01 LEVEL NORMAL
 --- -- -- -- -- SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-OR-BN ODOR H2S

--- -- -- -- -- SEDIMENT INFORMATION:

--- -- -- -- -- SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 40

--- -- -- -- -- REMARKS:

--- -- -- -- -- 1-38 LADNER NE 7 1/2' TOPO. SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM STARTING 25M UP FROM FORK, TAKEN FROM E BANK;
 --- -- -- -- -- 1-60 TOP SOIL;

406260 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 27.0 WEATHER LT WIND-RAINY
 --- -- -- -- -- PHASE E MAP NL 1309 SITE 4602 TIME TAKEN 10/07/07/79 RELIEF MODERATE VEGETATION GRASS-DENSE
 --- -- -- -- -- LOCATION: LAT 45.891(45 53' 27") LONG 103.510(103 30' 36") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 --- -- -- -- -- WATER: WIDTH(M) 2.00 DEPTH(M) 0.01 LEVEL NORMAL
 --- -- -- -- -- SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR R-BN-BK ODOR H2S

--- -- -- -- -- SEDIMENT INFORMATION:

--- -- -- -- -- SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 70

--- -- -- -- -- REMARKS:

--- -- -- -- -- 1-38 LADNER NE, SAMPLE TAKEN FROM CLOSE TO E BANK IN A 10M INTERVAL UPSTREAM STARTING 50M DOWNSTREAM OF FORK;
 --- -- -- -- -- 1-60 TOP SOIL, HEAVILY TRODDEN BY CATTLE;

406261 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 27.0 WEATHER LT WIND-RAINY

PHASE E MAP NL1309 SITE 4603 TIME TAKEN 11/07/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.907(45 54'25") LONG 103.502(103 30' 7") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) 2.00 DEPTH(M) 0.01 LEVEL NORMAL
 BED MATERIAL SAND SAMPLE: COLOR M-OR-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 30

REMARKS:
 1-38 LARDNER NE 7 1/2' TOPO, SAMPLE TAKEN IN A 16M INTERVAL UPSTREAM FROM E BANK STARTING 25M DOWN STREAM FROM ROAD:

406262 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 27.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4604 TIME TAKEN 11/07/07/79 RELIEF MODERATE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.888(45 53'16") LONG 103.524(103 31'26") CONTAMINANTS OTHER STREAM FLOW(M/SEC) 0.01
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) 2.00 DEPTH(M) 0.25 LEVEL NORMAL
 BED MATERIAL SILT SAMPLE: COLOR Q-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 70

REMARKS:
 1-38 LARDNER NE 7 1/2 TOPO, SAMPLE TAKEN FROM W BANK IN A 12M INTERVAL UPSTREAM STARTING AT CURVE:
 1-60 OIL WELLS, TOP SOIL:

406263 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 28.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4605 TIME TAKEN 11/07/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.908(45 54'28") LONG 103.474(103 28'26") CONTAMINANTS AGRICULTURA STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 EAGLES NEST BUTTE 7.5' TOPO, SAMPLE TAKEN 25M UPSTREAM OF ROAD OVER A 12M INTERVAL BEGINNING AFTER THE TALL GRASS:
 1-60 TOP SOIL:
 1-78 DALE & RICHARD FOUST & RAF LUDLOW, S.D. 57755:

406264 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 27.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4606 TIME TAKEN 12/07/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.888(45 53'16") LONG 103.438(103 26'16") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR M-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 EAGLES NEST BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL STARTING UPSTREAM OF FENCE - TAKEN MID STREAM:
 1-60 TOPSOIL:

406266 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4607 TIME TAKEN 12/07/07/79 RELIEF MODERATE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.833 (45 49'58") LONG 103.480 (103 28'48") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPTR RESULTS REQ NO, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-BN-WH ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 LUDLOW 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM STARTING 25M UP FROM ROAD, MIDSTREAM;

406267 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4608 TIME TAKEN 13/07/07/79 RELIEF MODERATE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.821 (45 49'15") LONG 103.499 (103 29'56") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.01 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-BN-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 LUDLOW 7.5' TOPO, SAMPLE TAKEN MIDSTREAM IN A 18M INTERVAL UPSTREAM STARTING 25M FROM ROAD;

1-60 TOP SOIL;

406268 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 24.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4609 TIME TAKEN 10/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.909 (45 54'32") LONG 103.298 (103 17'52") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-WH-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 9 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 TEEPEE BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 18M INTERVAL UPSTREAM STARTING 50M UPSTREAM FROM FENCE;

1-78 CARL PALCZEWSKI & LUDLOW, S.D. 57755;

406269 TYPE STREAM SEDIMENT REPLICATE SAMPLER JJP AIR TEMP(C) + 25.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4610 TIME TAKEN 11/09/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.907 (45 54'25") LONG 103.304 (103 18'14") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-OR-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 TEEPEE BUTTE 7 1/2' TOPO, SAMPLE TAKEN IN A 12M INTERVAL UPSTREAM STARTING AT FENCE;

1-60 TOP SOIL;

1-78 CARL PALCZEWSKI & LUDLOW, S.D. 57755;

406270 TYPE STREAM SEDIMENT REPLICATE SAMPLER UJP AIR TEMP(C) +25.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4611 TIME TAKEN 11/09/07/79 RELIEF GENTLE VEGETATION GRASS-DENSE
 LOCATION: LAT 45.907(45 54'25") LONG 103.318(103 19' 4") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-YL-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 TEEPEE BUTTE 7 1/2 TPOD, SAMPLE TAKEN IN A 14M INTERVAL UPSTREAM (MIDSTREAM) STARTING 20M DOWNSTREAM FROM FENCE;
 1-60 TOP SOIL;
 1-78 PALCZEWSKI & LUDLOW, B.D. 57755;

406271 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4064 TIME TAKEN 11/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.401(45 24' 3") LONG 103.103(103 6' 10") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 FLAT-TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT LARGE SHRUB GROWTH AND CONTINUING DOWNSTREAM;
 1-60 GRASS IN STREAM BED AND AGRICULTURE;

406272 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4065 TIME TAKEN 11/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.403(45 24' 10") LONG 103.101(103 6' 3") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 0.40 DEPTH(M) 0.20 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 FLAT TOP 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT A LARGE SHRUB GROWTH AND CONTINUING DOWNSTREAM;
 1-60 GRASS IN STREAM BED;

406273 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4066 TIME TAKEN 12/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.407(45 24' 25") LONG 103.088(103 5' 16") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.40 LEVEL POOLS
 SURFACE GEOL UNIT TPFL RESULTS REQ NO, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-GY ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 60M UPSTREAM OF FORK AND CONTINUING DOWNSTREAM;

1-60 GRASS IN STREAM AND AGRICULTURE:

406274 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4067 TIME TAKEN 12/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.410 (45 24' 36") LONG 103.086 (103 5' 9") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 60M UPSTREAM OF FORK;
 1-60 GRASS IN STREAM AND AGRICULTURE:

406275 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4068 TIME TAKEN 13/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.411 (45 24' 39") LONG 103.069 (103 4' 8") CONTAMINANTS OTHER STREAM FLOW(M/SEC) Q, 30
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-GY QDQR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT A LARGE TREE IN STREAM (DEAD);
 1-60 CATTLE TRAMPLED AREA AND MANURE:

406276 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4069 TIME TAKEN 13/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.405 (45 24' 18") LONG 103.087 (103 4' 10") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL 10M UPSTREAM OF FORK AND CONTINUING DOWNSTREAM;
 1-60 CATTLE IN AREA:

406277 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4070 TIME TAKEN 14/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.402 (45 24' 7") LONG 103.084 (103 5' 2") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.40 DEPTH(M) 0.10 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT BARBED WIRE FENCE AND CONTINUING DOWNSTREAM;
1-60 GRASS IN STREAM AND CATTLE IN AREA;

406278 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4071 TIME TAKEN 11/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.388(45 23'16") LONG 103.074(103 4'26") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL 60M UPSTREAM OF STOCK DAM HEADING WEST;
1-60 CATTLE IN IMMEDIATE AREA AND GRASS IN STREAM BED;

406279 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4072 TIME TAKEN 12/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.386(45 23' 9") LONG 103.071(103 4'15") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.80 DEPTH(M) 0.20 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT FENCE AND HEADING NORTH;
1-60 CATTLE TRAMPLED STREAM;

406280 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4073 TIME TAKEN 12/18/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.388(45 23'16") LONG 103.070(103 4'12") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BK-BN ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 FLAT TOP BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 80M UPSTREAM OF FORK AND HEADING E;
1-60 CATTLE TRAMPLED STREAM;

406281 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +29.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4074 TIME TAKEN 12/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.362(45 21'43") LONG 103.073(103 4'22") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.10 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT SHARP BEANER NORTH AND HEADING EAST;
1-60 CATTLE TRAMPLED STREAM;

406282 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
PHASE E MAP NL1309 SITE 4075 TIME TAKEN 13/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.366 (45 21'57") LONG 103.059 (103 3'32") CONTAMINANTS OTHER STREAM FLOW(M/SEC) LEVEL DRY
WATER: WIDTH(M) DEPTH(M) SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 100M FROM STOCK DAM AND HEADING WEST;
1-60 GRASS IN STREAM AND CATTLE TRAMPLED;

406283 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4076 TIME TAKEN 14/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.361 (45 21'39") LONG 103.054 (103 3'14") CONTAMINANTS OTHER STREAM FLOW(M/SEC) STAG
WATER: WIDTH(M) 0.50 DEPTH(M) 0.20 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN LEVEL POOLS ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 150M UPSTREAM OF FORK A DEAD TREE AND HEADING W;
1-60 TREES AND GRASS IN STREAM-CATTLE TRAMPLED;

406285 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4077 TIME TAKEN 15/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.359 (45 21'32") LONG 103.054 (103 3'14") CONTAMINANTS OTHER STREAM FLOW(M/SEC) LEVEL DRY
WATER: WIDTH(M) DEPTH(M) SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 200M UPSTREAM OF FORK AND HEADING W;
1-60 TREES AND GRASS IN STREAM-CATTLE TRAMPLED;

406286 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
PHASE E MAP NL1309 SITE 4078 TIME TAKEN 15/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.363 (45 21'46") LONG 103.044 (103 2'38") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL LOW
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 15

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN ALONG 20M INTERVAL WHERE STREAM MEANDERS CLOSE TO DIRT ROAD;
 1-60 GRASS IN STREAM BED;

406287 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4079 TIME TAKEN 16/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.359 (45 21' 32") LONG 103.034 (103 2' 2") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 15

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT LARGE TREE IN STREAM AND HEADING UPSTREAM;
 1-60 GRASS AND SHRUBS GROWING IN STREAM;

406288 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL 1309 SITE 4080 TIME TAKEN 16/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.359 (45 21' 32") LONG 103.030 (103 1' 48") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 20

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT TWO LARGE TREES ON BANK AND HEADING UPSTREAM;
 1-60 GRASS IN STREAM;

406289 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL 1309 SITE 4081 TIME TAKEN 17/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.365 (45 21' 54") LONG 103.017 (103 1' 1") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TPFL RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL (%) 25

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT TREE GROVE 40M UPSTREAM FROM FORK AND CONTINUING
 UPSTREAM;
 1-60 GRASS IN STREAM BED;

406290 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +27.0 WEATHER CALM-CLEAR
 PHASE E MAP NL 1309 SITE 4082 TIME TAKEN 17/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.362(45 21'43") LONG 103.010(103 0'36") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.40 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR H-GY-BK ODOR H2S
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT LARGE SHRUB GROWTH AND CONTINUING EAST;
 1-60 GRASS GROWING IN PARTS OF STREAM;

406291 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +27.0 WEATHER CALM-CLEAR
 PHASE E MAP NL 1309 SITE 4083 TIME TAKEN 18/19/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.357(45 21'25") LONG 103.008(103 0'28") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-BN-BK ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL WHERE STREAM MEANDERS SHARPLY UPSTREAM FROM DIRT ROAD;
 1-60 GRASS IN STREAM;

406292 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4084 TIME TAKEN 10/20/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.368(45 22' 4") LONG 103.033(103 1'58") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 50M UPSTREAM OF FORK AND HEADING UPSTREAM;
 1-60 CATTLE TRAMPLED GRASSY STREAM;

406293 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) +28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4085 TIME TAKEN 10/20/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.373(45 22'22") LONG 103.043(103 2'34") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 3.00 DEPTH(M) 0.70 LEVEL NORMAL
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BK ODOR H2S

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 40M FROM FORK AND HEADING TOWARDS STOCK DAM;
 1-60 CATTLE TRAMPLED AREA;

406294 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4086 TIME TAKEN 10/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.368(45 22' 4") LONG 103.031(103 1' 51") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5' QUAD., SAMPLE TAKEN OVER A 20M INTERVAL STARTING 50M UPSTREAM FROM WHERE THE MAIN STREAM BRANCHES:

406295 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4087 TIME TAKEN 10/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.377(45 22' 37") LONG 103.036(103 2' 16") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 FLAT TOP BUTTE, 7.5' QUAD., SAMPLE TAKEN OVER 20M INTERVAL, STARTING 50M UPSTREAM FROM THE WEST END OF THE STOCK DAM:

406296 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP(C) + 29.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4088 TIME TAKEN 11/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.349(45 20' 56") LONG 103.010(103 0' 36") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 6 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 SHEEP MOUNTAIN, 7.5' QUAD., SAMPLE TAKEN OVER A 20M INTERVAL, STARTING ON A WESTWARD MEANDER INSIDE THE FOREST SERVICE FENCE:

406297 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4089 TIME TAKEN 13/20/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.342(45 20' 31") LONG 103.060(103 3' 36") CONTAMINANTS OTHER SAMPLE: COLOR - -CL ODOR NONE
 SURFACE GEOL UNIT TOH RESULTS REG NO ,RELEASED 800125

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHQS/CM) 690 DISSOLVED OXYGEN(PPM) 21.4
 WATER TEMP(C) + 19.1 VISIBILITY(M) CLEAR PH 8.5 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 400 P. ALKALINITY(PPM) 50 M. ALKALINITY(PPM) 395
 APPEARANCE CLEAR DISCHARGE(L/H) 1.50
 PRODUCING HORIZON TOH CONFIDENCE PROBABLE SOURCE GEOL INFERENCE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED

METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN FROM GALVANIZED PIPE WHICH DRAINS COLLECTING TANK FOR SPRING (ANA SPRING);
 1-60 SAMPLE COLLECTED FROM PIPE (GALVANIZED) 10 M BELOW HOLDING TANK;

406298 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4090 TIME TAKEN 13/20/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.324 (45 19' 26") LONG 103.047 (103 2' 49") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REG NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROHOS CM) 630 DISSOLVED OXYGEN (PPH) 71.5
 WATER TEMP(C) + 16.7 VISIBILITY(M) CLEAR PH 8.7 LON-ION PAPER
 TOTAL ALKALINITY(PPH) 300 P ALKALINITY(PPH) 10 M ALKALINITY(PPH) 320
 APPEARANCE CLEAR DISCHARGE(L/M) 1.00
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN DIRECTLY FROM SPRING COMING OUT OF GROUND (MOONSHINE SPRING) JUST BELOW RIMROCK TRAIL;
 1-60 SAMPLE COLLECTED AND BOTTLED FROM SPRING WATER FLOWING OVER ROCK;

406299 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4091 TIME TAKEN 14/20/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.307 (45 18' 25") LONG 103.051 (103 3' 3") CONTAMINANTS NONE STREAM FLOW(M/SEC) STAG
 SURFACE GEOL UNIT KGMH RESULTS REG NO , RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.20 LEVEL POOLS
 BED MATERIAL SAND SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT SMALL TREE GROVE AND CONTINUING DOWNSTREAM;

406300 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP(C) + 30.5 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4092 TIME TAKEN 15/20/07/79 RELIEF MODERATE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.307 (45 18' 25") LONG 103.041 (103 2' 27") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 SURFACE GEOL UNIT KGMH RESULTS REG NO , RELEASED 800125 WATER: WIDTH(M) 1.00 DEPTH(M) 0.10 LEVEL NORMAL
 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 SHEEP MOUNTAIN 7.5' QUAD., SAMPLE TAKEN OVER A 30M INTERVAL JUST 50M UPSTREAM FROM FOREST BOUNDARY, ALONG A WESTWARD MEANDER:

406301 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP (C) + 28.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4093 TIME TAKEN 16/27/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.315 (45 18' 54") LONG 103.038 (103 2' 16") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 670 DISSOLVED OXYGEN (PPH) 7.2
 WATER TEMP (C) + 17.3 VISIBILITY (M) CLEAR PH 8.1 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 320 A ALKALINITY (PPH) < 5 M ALKALINITY (PPH) 320
 APPEARANCE CLEAR DISCHARGE (L/M) 0.50 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE COLLECTED FROM RIMROCK SPRING'S GALVANIZED PIPE LOCATED IN DENSE TREE GROVE AT THE BASE OF SLIP BUTTES:

406302 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP (C) + 30.5 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4094 TIME TAKEN 10/21/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.303 (45 18' 10") LONG 103.198 (103 11' 52") CONTAMINANTS OTHER STREAM FLOW (M/SEC) NONE
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH (M) 3.00 DEPTH (M) 0.10 LEVEL NORMAL
 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' QUAD., SAMPLE TAKEN OVER A 20M INTERVALS STARTING 25M UPSTREAM FROM WHERE THE MAIN STREAM BRANCHES:
 1-60 GRASS & MARSH:

406303 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP (C) + 30.5 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4095 TIME TAKEN 10/21/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.304 (45 18' 14") LONG 103.196 (103 11' 45") CONTAMINANTS OTHER STREAM FLOW (M/SEC)
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 IRISH BUTTE 7.5' QUAD., SAMPLE TAKEN OVER A 17M INTERVAL, STARTING WHERE STREAM EMPTIES INTO THE MAIN STREAM:

406304 TYPE WELL WATER REPLICATE SAMPLER DWT AIR TEMP (C) +30.5 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4096 TIME TAKEN 10/21/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.338(45 20'16") LONG 103.177(103 10'37") CONTAMINANTS NONE
 SURFACE GEOL UNIT KGMH RESULTS REQ NO. RELEASED 800125 SAMPLE: COLOR -CL QDOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 7850 DISSOLVED OXYGEN (PPH) 0.4
 WATER TEMP (C) +13.2 VISIBILITY (M) CLEAR PH 8.4 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 565 P ALKALINITY (PPH) 40 M ALKALINITY (PPH) 575
 APPEARANCE CLEAR DISCHARGE (L/M) 20.00
 PRODUCING HORIZON KGMH CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE
 DEPTH TO PROD HORIZON (M) 60 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH (M) 60 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:
 1-38 IRISH BUTTE, 7.5' QUAD., SAMPLE TAKEN FROM PIPE TO STOCK TANK, ABOVE WELL, LOCATED AT END OF POWER LINE, JUST SOUTH OF A GRAVEL ROAD;

406306 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP (C) +29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4097 TIME TAKEN 12/21/07/79 RELIEF MODERATE VEGETATION CONIFER-MODERATE
 LOCATION: LAT 45.378(45 22'40") LONG 103.149(103 8'56") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TQW RESULTS REQ NO. RELEASED 800125 SAMPLE: COLOR -CL QDOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 690 DISSOLVED OXYGEN (PPH) 12.2
 WATER TEMP (C) +19.5 VISIBILITY (M) CLEAR PH 7.7 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 340 P ALKALINITY (PPH) 25 M ALKALINITY (PPH) 330
 APPEARANCE CLEAR DISCHARGE (L/M) 10.00
 PRODUCING HORIZON TQW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 IRISH BUTTE 7.5 QUAD, SAMPLE TAKEN FROM OVERFLOW PIPE AT THYBO SPRING 10 M FROM COLLECTING TANK;
 1-60 SAMPLE TAKEN FROM GALVANIZED OVERFLOW PIPE;

406307 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP (C) +29.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4098 TIME TAKEN 11/23/07/79 RELIEF MODERATE VEGETATION CONIFER/DECIDUOUS-MODERATE
 LOCATION: LAT 45.358(45 21'28") LONG 103.142(103 8'31") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TQW RESULTS REQ NO. RELEASED 800125 SAMPLE: COLOR L-GY-BN QDOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 940 DISSOLVED OXYGEN (PPH) 6.1
 WATER TEMP (C) +23.2 VISIBILITY (M) 1.00 PH 8.2 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 420 P ALKALINITY (PPH) 20 M ALKALINITY (PPH) 405

APPEARANCE HURRY DISCHARGE(L/H) 0.10
 PRODUCING HORIZON TMA CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE OTHER POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION
 METERS FROM HEAD 50 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 IRISH BUTTE 7.5 QUAD, SAMPLE TAKEN FROM UNCLE NEED'S SPRING WHICH WAS SITTING IN A ROCK STOCK DAM AT THE BASE OF A CANYON
 PATH:
 1-60 SAMPLE TAKEN FROM POOL OF ROCK WALLS AND MUD BOTTOM;
 3-18 DAMED UP COLLECTION BASIN;

406308 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 29.0 WEATHER CALM-OVERCAST
 PHASE E MAP NL1309 SITE 4099 TIME TAKEN 12/23/07/79 RELIEF MODERATE VEGETATION CONIFER-SPARSE
 LOCATION: LAT 45.361(45 21'39") LONG 103.123(103 7'22") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 800 DISSOLVED OXYGEN(PPM) 12.7
 WATER TEMP(C) + 10.3 VISIBILITY(M) CLEAR PH 9.4 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 420 P ALKALINITY(PPM) 140 M ALKALINITY(PPM) 450
 APPEARANCE CLEAR DISCHARGE(L/H) 1.00
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE OTHER POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 SHEEP MOUNTAIN, 7.5 QUAD., SAMPLE TAKEN WHERE SPRING COMES OUT OF ROCK 20 M SOUTH OF TRAIL;
 1-60 SAMPLE TAKEN DIRECTLY FROM SPRING COMING OUT OF ROCK IN SIDE OF CANYON WALL;
 3-18 WATER FLOWING RIGHT FROM OUTCROP;

406309 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP(C) + 29.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4100 TIME TAKEN 13/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.362(45 21'43") LONG 103.107(103 6'25") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 SHEEP MOUNTAIN, 7.5 QUAD., SAMPLE TAKEN OVER A 30M INTERVAL, STARTING 25M UPSTREAM FROM TRAIL ACROSS STREAM BED;

406310 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER CALM-OVERCAST

PHASE E MAP NL1309 SITE 4401 TIME TAKEN 12/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.363 (45 21'46") LONG 103.108 (103 6'28") CONTAMINANTS OTHER STREAM FLOW (M/SEC)
 SURFACE GEOL UNIT TOH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN 50M UPSTREAM OF FORK BEGINNING AT DEAD TREE ON BANK AND OVER A 20M INTERVAL;
 1-60 CATTLE IN AREA;

406311 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP (C) + 28.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4402 TIME TAKEN 13/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.370 (45 22'12") LONG 103.100 (103 6'0") CONTAMINANTS OTHER
 SURFACE GEOL UNIT KGMH RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1870 DISSOLVED OXYGEN (PPH) 1.9
 WATER TEMP (C) + 13.2 VISIBILITY (M) CLEAR PH 8.7 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 790 P ALKALINITY (PPH) 80 M ALKALINITY (PPH) 780
 APPEARANCE CLEAR DISCHARGE (L/M) 1.00 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON TAPL CONFIDENCE POSSIBLE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION STEEL
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN FROM PIPE TO STOCK TANK LOCATED IN DRAW, UNNAMED SPRING, WITH PIPE IN MIDDLE OF
 TANK;
 1-60 USED GREEN TAPE TO GET SAMPLE;

406312 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP (C) + 28.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4403 TIME TAKEN 13/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.374 (45 22'26") LONG 103.109 (103 6'32") CONTAMINANTS OTHER STREAM FLOW (M/SEC)
 SURFACE GEOL UNIT TOH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 15

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 25M INTERVAL BEGINNING 50M DOWNSTREAM OF FORK;
 1-60 CATTLE TRAMPLED STREAM WITH GRASS AND MANURE;

406313 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP (C) + 28.5 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4404 TIME TAKEN 14/23/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.367 (45 22' 1") LONG 103.092 (103 5'31") CONTAMINANTS OTHER STREAM FLOW (M/SEC)

SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 10 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 SHEEP MOUNTAIN, 7.5' QUAD., SAMPLE TAKEN OVER A 25M INTERVAL, STARTING 25M UPSTREAM FROM TRAIL ACROSS STREAM BED;
 1-60 GRASS COVER;

406314 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4405 TIME TAKEN 14/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.365 (45 21'54") LONG 103.090 (103 5'24") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING WHERE STREAM MEANDERS WEST AND CONTINUING WESTWARD;
 1-60 GRASS COVER AND CATTLE;

406315 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4406 TIME TAKEN 14/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.364 (45 21'50") LONG 103.096 (103 5'45") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 60M SOUTH OF WINDMILL AND CONTINUING WESTWARD;
 1-60 GRASS COVER AND CATTLE;

406316 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 30.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4407 TIME TAKEN 16/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.346 (45 20'52") LONG 103.113 (103 6'46") CONTAMINANTS NONE

SURFACE GEOL UNIT TOH RESULTS REQ NO ,RELEASED 800125 SAMPLE: COLOR L-GY-BN ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 890 DISSOLVED OXYGEN (PPH) 9.8
 WATER TEMP(C) + 12.9 VISIBILITY(M) 1.00 PH 8.6 LO-ION PAPER
 TOTAL ALKALINITY(PPH) 490 P ALKALINITY(PPH) 22 M ALKALINITY(PPH) 510
 APPEARANCE MURKY DISCHARGE(L/M) 5.00 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON TOH CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT

DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 SHEEP MOUNTAIN, 7.5 QUAD., SAMPLE TAKEN FROM PIPE TO STOCK TANK, HUBER SPRING, LOCATED JUST SOUTH OF WILLARD GAP;

406317 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4408 TIME TAKEN 16/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.349(45 20'56") LONG 103.124(103 7'26") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TOH RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR L-GY-WH QDQR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 820 DISSOLVED OXYGEN(PPM) 8.3
 WATER TEMP(C) + 12.3 VISIBILITY(M) 0.40 PH 8.3 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 450 P ALKALINITY(PPM) 70 M ALKALINITY(PPM) 450
 APPEARANCE MURKY DISCHARGE(L/M) 1.00 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON TOH CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE DUG POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION UNKNOWN
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN FROM FULLER SPRING WHICH WAS COMING OUT OF THE GROUND BECAUSE STOCK TANK PIPE WAS BROKEN;
 1-60 HAD TO DIG A HOLE IN GROUND AND LET IT FILL UP TO GRAB SAMPLE;

406318 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4410 TIME TAKEN 17/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.349(45 20'56") LONG 103.129(103 7'44") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TOH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5 QUAD, SAMPLE TAKEN 60M UPSTREAM OF FORK AND CONTINUING DOWNSTREAM OVER A 20M INTERVAL;

406319 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4409 TIME TAKEN 17/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.349(45 20'56") LONG 103.127(103 7'37") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TOH RESULTS REQ NO , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN QDQR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 IRISH BUTTE 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 65M UPSTREAM OF FORK AND CONTINUING DOWNSTREAM

406320 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 29.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4411 TIME TAKEN 12/23/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.347(45 20'49") LONG 103.128(103 7'40") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR L-BN-WH ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 830 DISSOLVED OXYGEN(PPM) 9.2
 WATER TEMP(C) + 13.9 VISIBILITY(M) 0.10 PH 8.4 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 480 P ALKALINITY(PPM) 38 M ALKALINITY(PPM) 450
 APPEARANCE MURKY DISCHARGE(L/H) 2.00
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION STEEL
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 IRISH BUTTE 7.5 QUAD, SAMPLE TAKEN FROM PIPE TO STOCK TANK FROM HOACH SPRING, LOCATED UP FIRST DRAW BEFORE EAGLES NEST CANYON;
 1-60 FLOWING SAND;

406321 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL 1309 SITE 4412 TIME TAKEN 12/24/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.343(45 20'34") LONG 103.073(103 4'22") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 850 DISSOLVED OXYGEN(PPM) 9.2
 WATER TEMP(C) + 17.5 VISIBILITY(M) CLEAR PH 7.1 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 490 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 480
 APPEARANCE CLEAR DISCHARGE(L/H) 0.70
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN FROM GALVANIZED PIPE COMING OUT OF MOUNTAIN SIDE AND INTO STOCK TANK (WOLF'S SPRING);

406322 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 29.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4413 TIME TAKEN 13/24/07/79 RELIEF MODERATE VEGETATION DECIDUOUS-MODERATE
 LOCATION: LAT 45.322(45 19'19") LONG 103.028(103 1'40") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	640	DISSOLVED OXYGEN(PPH)	11.3
WATER TEMP(C)	+ 17.7	VISIBILITY(M)	CLEAR	PH	7.7 LO-TON PAPER
TOTAL ALKALINITY(PPH)	220	P ALKALINITY(PPH)	10	M ALKALINITY(PPH)	220
APPEARANCE	CLEAR	DISCHARGE(L/M)	3.00		
PRODUCING HORIZON	TOW	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRIVE POINT	POWER CLASSIFICATION	ARTESIAN	CASING	GALVANIZED	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	10	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)		CONFIDENCE OF PRODUCING DEPTH		SOURCE OF PRODUCING INFORMATION			
WELL DEPTH(M)		CONFIDENCE OF WELL DEPTH		SOURCE OF DEPTH INFORMATION			

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN FROM BATT SPRINGS GALVANIZED PIPE LEADING TO STOCK TANK ON SIDE OF MOUNTAIN IN TREE GROVE;

406323	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	DWT	AIR TEMP(C)	+ 28.0	WEATHER	LT WIND-PT CLDY						
	PHASE	E	MAP NL	1309	SITE	4414	TIME TAKEN	14/24/07/79	RELIEF	GENTLE	VEGETATION	GRASS-MODERATE			
	LOCATION:	LAT	45.329(45 19'44")	LONG	103.014(103 0'50")				CONTAMINANTS	OTHER	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	TPFL	RESULTS	REQ NO	,RELEASED	800125			WATER:	WIDTH(M)	DEPTH(M)	LEVEL	DRY		
									BED MATERIAL	SILT	SAMPLE:	COLOR	D-BN-GY	ODOR	NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 SHEEP MOUNTAIN, 7.5' QUAD., SAMPLE TAKEN OVER A 20M INTERVAL, STARTING 25M UPSTREAM FROM WHERE THE MAIN STREAM BRANCHES; 1-60 MARSH AND GRASS;

406324	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	PGL	AIR TEMP(C)	+ 30.0	WEATHER	LT WIND-OVERCAST						
	PHASE	E	MAP NL	1309	SITE	4415	TIME TAKEN	14/24/07/79	RELIEF	MODERATE	VEGETATION	GRASS-MODERATE			
	LOCATION:	LAT	45.328(45 19'40")	LONG	103.014(103 0'50")				CONTAMINANTS	NONE	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	TPFL	RESULTS	REQ NO	,RELEASED	800125			WATER:	WIDTH(M)	DEPTH(M)	LEVEL	DRY		
									BED MATERIAL	SILT	SAMPLE:	COLOR	D-BN-RD	ODOR	NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 30

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 25M INTERVAL BEGINNING 65M UPSTREAM OF FORK AND CONTINUING DOWNSTREAM;

406325	TYPE	STREAM SEDIMENT	REPLICATE	SAMPLER	PGL	AIR TEMP(C)	+ 30.0	WEATHER	LT WIND-PT CLDY						
	PHASE	E	MAP NL	1309	SITE	4416	TIME TAKEN	14/24/07/79	RELIEF	GENTLE	VEGETATION	GRASS-MODERATE			
	LOCATION:	LAT	45.327(45 19'37")	LONG	103.010(103 0'36")				CONTAMINANTS	OTHER	STREAM FLOW(M/SEC)				
	SURFACE GEOL UNIT	TPFL	RESULTS	REQ NO	,RELEASED	800125			WATER:	WIDTH(M)	DEPTH(M)	LEVEL	DRY		
									BED MATERIAL	SILT	SAMPLE:	COLOR	D-GY-BN	ODOR	NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 SHEEP MOUNTAIN, 7.5' QUAD., SAMPLE TAKEN OVER 20M INTERVAL, STARTING 50M DOWNSTREAM FROM WHERE A SMALL STREAM ENTERS THE MAIN STREAM;
1-60 CATTLE AND MARSH;

406326 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.5 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4417 TIME TAKEN 14/24/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.319 (45 19' 8") LONG 103.009 (103 0' 32") CONTAMINANTS OTHER STREAM FLOW(M/SEC) ---
WATER: WIDTH(M) --- DEPTH(M) --- LEVEL DRY
SURFACE GEOL UNIT TPL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-BN-GY ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 SHEEP MOUNTAIN, 7.5' QUAD., SAMPLE TAKEN 30M UPSTREAM FROM THE FOREST SERVICE FENCE, OVER A 20M INTERVAL, STARTING IN A GROUP OF TREES;
1-60 GRASSED OVER;

406327 TYPE STREAM SEDIMENT REPLICATE SAMPLER DHT AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4418 TIME TAKEN 15/24/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.308 (45 18' 28") LONG 103.011 (103 0' 39") CONTAMINANTS OTHER STREAM FLOW(M/SEC) ---
WATER: WIDTH(M) --- DEPTH(M) --- LEVEL DRY
SURFACE GEOL UNIT TPL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING AT DEAD TREE ON BANK AND CONTINUING DOWNSTREAM;
1-60 GRASS IN STREAM;

406328 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4419 TIME TAKEN 15/24/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.312 (45 18' 43") LONG 103.017 (103 1' 1") CONTAMINANTS OTHER STREAM FLOW(M/SEC) ---
WATER: WIDTH(M) --- DEPTH(M) --- LEVEL DRY
SURFACE GEOL UNIT TPL RESULTS REQ NO , RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 40

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 60M UPSTREAM OF FORK AND CONTINUING DOWNSTREAM;
1-60 MARSHY;

406329 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4420 TIME TAKEN 12/27/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.357 (45 21' 25") LONG 103.067 (103 4' 1") CONTAMINANTS OTHER STREAM FLOW(M/SEC) 0.50
WATER: WIDTH(M) 4.00 DEPTH(M) 3.00 LEVEL NORMAL

SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR H2S

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL (%) 15

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN 150M EAST OF FORK AND CONTINUING TOWARDS STOCK DAM OVER 20M INTERVAL;
1-60 COW MANURE AND CATTLE IN AREA AS WELL AS STOCK DAM;

406330 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4421 TIME TAKEN 13/27/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.350 (45 21' 0") LONG 103.075 (103 4' 30") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT IQH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN 40M UPSTREAM OF FORK AND OVER A 20M INTERVAL DOWNSTREAM;
1-60 GRASS COVER IN BED;

406331 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4422 TIME TAKEN 14/27/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.352 (45 21' 7") LONG 103.077 (103 4' 37") CONTAMINANTS NONE STREAM FLOW(M/SEC) STAG

SURFACE GEOL UNIT TOH RESULTS REG NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 60M UPSTREAM OF FORK AND GOING DOWNSTREAM;

406332 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4423 TIME TAKEN 15/27/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
LOCATION: LAT 45.337 (45 20' 13") LONG 103.113 (103 6' 46") CONTAMINANTS OTHER STREAM FLOW(M/SEC)

SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 21M INTERVAL 60M SOUTH OF STOCK DAM;
1-60 STOCK DAM AND CATTLE IN AREA

406333 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
PHASE E MAP NL1309 SITE 4424 TIME TAKEN 14/27/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE

LOCATION: LAT 45.337 (45 20' 13") LONG 103.170 (103 6' 36") CONTAMINANTS OTHER STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 0.50 DEPTH(M) 0.20 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 60M UPSTREAM OF STOCK DAM AND CONTINUING UPSTREAM;
 1-60 STOCK DAMS AND CATTLE IN AREA;

406334 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4425 TIME TAKEN 15/27/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.328 (45 19' 40") LONG 103.112 (103 6' 43") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY QDQR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 21M INTERVAL BEGINNING 100M UPSTREAM OF FORK AND HEADING SOUTH;
 1-60 GRASS IN BED AND STOCK DAM;

406335 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-PT CLDY
 PHASE E MAP NL1309 SITE 4426 TIME TAKEN 15/27/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.327 (45 19' 37") LONG 103.115 (103 6' 54") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL SAND SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 40M UPSTREAM OF FORK AND HEADING SOUTH;
 1-60 GRASS IN BED AND CATTLE;

406336 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4427 TIME TAKEN 09/28/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.311 (45 18' 39") LONG 103.122 (103 7' 19") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR D-GY-BN QDQR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 100M UPSTREAM OF FORK AND GOING DOWNSTREAM;
 1-60 GRASS COVER;

406337 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 27.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4428 TIME TAKEN 10/28/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.311(45 18'39") LONG 103.120(103 7'12") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 60M UPSTREAM OF FORK CONTINUING UPSTREAM;
 1-60 GRASS COVER IN BED.

406339 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 27.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4429 TIME TAKEN 11/28/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.308(45 18'28") LONG 103.112(103 6'43") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.30 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-BN-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING JUST BELOW A TOPOGRAPHIC HIGH AND CONTINUING
 DOWNSTREAM;

406340 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4430 TIME TAKEN 12/28/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.313(45 18'46") LONG 103.105(103 6'18") CONTAMINANTS NONE STREAM FLOW(M/SEC) NONE
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.30 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-39 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 60M UPSTREAM OF FORK AND CONTINUING 80;

406341 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 27.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4431 TIME TAKEN 13/28/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.316(45 18'57") LONG 103.107(103 6'25") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMH RESULTS REQ NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 70M UPSTREAM OF FORK AND CONTINUING UPSTREAM;
 1-60 GRASS COVER IN BED.

406342 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 27.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4432 TIME TAKEN 14/28/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.315 (45 18'54") LONG 103.106 (103 6'21") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 SURFACE GEOL UNIT KGMM RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 15

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 70M UPSTREAM OF FORK AND CONTINUING NORTH;
 1-60 GRASS COVER AND STOCK DAM;

406343 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 27.0 WEATHER LT WIND-RAINY
 PHASE E MAP NL1309 SITE 4433 TIME TAKEN 14/28/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.320 (45 19'12") LONG 103.097 (103 5'49") CONTAMINANTS OTHER STREAM FLOW(M/SEC) 2.00
 WATER: WIDTH(M) 3.00 DEPTH(M) 2.00 LEVEL NORMAL
 SURFACE GEOL UNIT KGMM RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR D-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 20

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 45M UPSTREAM OF MAIN BODY OF STOCK DAM AND CONTINUING
 UPSTREAM;
 1-60 STOCK DAM;

406344 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4434 TIME TAKEN 11/29/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.330 (45 19'48") LONG 103.084 (103 5' 2") CONTAMINANTS NONE STREAM FLOW(M/SEC) 0.50
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT KGMM RESULTS REG NO ,RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 40M UPSTREAM OF FORK AND HEADING SOUTH;

406345 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4435 TIME TAKEN 11/29/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.331 (45 19'51") LONG 103.084 (103 5' 2") CONTAMINANTS NONE STREAM FLOW(M/SEC) 1.00
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT KGMM RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 40M UPSTREAM OF FORK AND HEADING SOUTH;

406346 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 29.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4436 TIME TAKEN 12/29/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.328(45 19'40") LONG 103.080(103 4'48") CONTAMINANTS NONE STREAM FLOW(M/SEC) 1.00
 WATER: WIDTH(M) 0.70 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 40M UPSTREAM OF FORK AND FOLLOWING UPSTREAM;

406347 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4437 TIME TAKEN 13/29/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.325(45 19'30") LONG 103.077(103 4'37") CONTAMINANTS NONE STREAM FLOW(M/SEC) 1.00
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 40M UPSTREAM OF FORK AND FOLLOWING DOWNSTREAM;

406348 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4438 TIME TAKEN 14/29/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.322(45 19'19") LONG 103.073(103 4'22") CONTAMINANTS OTHER STREAM FLOW(M/SEC) 1.00
 WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 15M INTERVAL BEGINNING 40M UPSTREAM OF FORK AND HEADING UPSTREAM;
 1-60 STOCK DAM;

406349 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 31.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4439 TIME TAKEN 15/29/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.325(45 19'30") LONG 103.065(103 3'54") CONTAMINANTS NONE STREAM FLOW(M/SEC) 0.50
 WATER: WIDTH(M) 1.00 DEPTH(M) 0.40 LEVEL LOW
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 100M UPSTREAM OF FORK HEADING DOWNSTREAM;

406350 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 31.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4440 TIME TAKEN 15/29/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.312 (45 18' 43") LONG 103.068 (103 4' 4") CONTAMINANTS NONE STREAM FLOW(M/SEC) 1.00
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 WATER: WIDTH(M) 0.80 DEPTH(M) 0.50 LEVEL LOW
 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 10M UPSTREAM OF FORK AND HEADING NORTH;

406351 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP(C) + 31.0 WEATHER CALM-CLEAR
 PHASE E MAP NL1309 SITE 4441 TIME TAKEN 16/29/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.306 (45 18' 21") LONG 103.066 (103 3' 57") CONTAMINANTS NONE STREAM FLOW(M/SEC) 2.00
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 WATER: WIDTH(M) 2.00 DEPTH(M) 0.50 LEVEL LOW
 BED MATERIAL CLAY SAMPLE: COLOR L-GY-BN ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 10

REMARKS:

1-38 SHEEP MOUNTAIN 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING 30M UP FROM FORK AND HEADING NORTH;

406352 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4442 TIME TAKEN 11/30/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.425 (45 25' 30") LONG 103.202 (103 12' 7") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHO/S/CM) 470 DISSOLVED OXYGEN (PPH) 9.8
 WATER TEMP(C) + 17.3 VISIBILITY (M) CLEAR PH 7.0 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 180 P ALKALINITY (PPH) <5 M ALKALINITY (PPH) 186
 APPEARANCE CLEAR DISCHARGE (L/M) 0.30
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 L. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM DULDE SPRING'S PIPE LEADING INTO STOCK TANK 5 M FROM SPRING;

406353 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4443 TIME TAKEN 11/30/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.430 (45 25' 48") LONG 103.208 (103 12' 28") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE
 WATER TEMP(C) + 12.1
 TOTAL ALKALINITY (PPM) 460
 APPEARANCE CLEAR
 PRODUCING HORIZON TOW

CONDUCTIVITY (MICROMHOS/CM) 780
 VISIBILITY (M) CLEAR
 P ALKALINITY (PPM) 22
 DISCHARGE (L/M) 2.00
 CONFIDENCE PROBABLE

DISSOLVED OXYGEN (PPM) 7.1
 PH 8.6 LO-ION PAPER
 M ALKALINITY (PPM) 450
 SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING PLASTIC PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 10 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM PLASTIC PIPE AT MEATHOOK SPRING 10 M FROM SPRING'S EFFLUENT (APROX.);

406354 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP (C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4444 TIME TAKEN 12/30/07/79 RELIEF MODERATE VEGETATION MOSS-MODERATE
 LOCATION: LAT 45.433 (45 25'58") LONG 103.198 (103 11'52") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE
 WATER TEMP (C) + 11.3
 TOTAL ALKALINITY (PPM) 246
 APPEARANCE CLEAR
 PRODUCING HORIZON TOW

CONDUCTIVITY (MICROMHOS/CM) 480
 VISIBILITY (M) CLEAR
 P ALKALINITY (PPM) 40
 DISCHARGE (L/M) 2.00
 CONFIDENCE PROBABLE

DISSOLVED OXYGEN (PPM) 10.9
 PH 9.1 LO-ION PAPER
 M ALKALINITY (PPM) 250
 SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM BLOMBERG SPRING'S PIPE LEADING TO STOCK TANK AND JUST OFF THE MAINSTREAM OF CANYON AMONG TREES;

406355 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP (C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4445 TIME TAKEN 12/30/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.444 (45 26'38") LONG 103.206 (103 12'21") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE
 WATER TEMP (C) + 11.7
 TOTAL ALKALINITY (PPM) 384
 APPEARANCE CLEAR
 PRODUCING HORIZON TOW

CONDUCTIVITY (MICROMHOS/CM) 670
 VISIBILITY (M) CLEAR
 P ALKALINITY (PPM) 45
 DISCHARGE (L/M) 2.00
 CONFIDENCE PROBABLE

DISSOLVED OXYGEN (PPM) 9.4
 PH 8.0 LO-ION PAPER
 M ALKALINITY (PPM) 384
 SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION

WELL DEPTH(M)

CONFIDENCE OF WELL DEPTH

SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM JONES SPRINGS PIPE WHICH LEAD TO STOCK TANK IN CLEARING BEYOND TREES:

406356 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4446 TIME TAKEN 13/30/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.453 (45 27' 10") LONG 103.197 (103 11' 45") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REG NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 440 DISSOLVED OXYGEN(PPM) 8.2
 WATER TEMP(C) + 12.9 VISIBILITY(M) CLEAR PH 8.4 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 235 P ALKALINITY(PPM) 10 M ALKALINITY(PPM) 225
 APPEARANCE CLEAR DISCHARGE(L/M) 1.50
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 4 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM JONE'S CREEK SPRING'S PIPE LEADING TO STOCK TANK IN SHADY TREE GROVE:

406357 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4447 TIME TAKEN 14/30/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.454 (45 27' 14") LONG 103.189 (103 11' 20") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REG NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 450 DISSOLVED OXYGEN(PPM) 9.5
 WATER TEMP(C) + 10.3 VISIBILITY(M) CLEAR PH 9.6 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 230 P ALKALINITY(PPM) 54 M ALKALINITY(PPM) 230
 APPEARANCE CLEAR DISCHARGE(L/M) 6.00
 PRODUCING HORIZON TOW CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 2 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM BEAVER SPRING'S PIPE TO STOCK TANK APPROX. 200 M FROM FORK IN STREAM:

406358 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4448 TIME TAKEN 14/30/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.460 (45 27' 36") LONG 103.201 (103 12' 3") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REG NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	550	DISSOLVED OXYGEN (PPM)	7.0
WATER TEMP (C)	+ 10.4	VISIBILITY (M)	CLEAR	PH 8.3	LO-ION PAPER
TOTAL ALKALINITY (PPM)	320	P ALKALINITY (PPM)	< 5	M ALKALINITY (PPM)	320
APPEARANCE	CLEAR	DISCHARGE (L/M)	6.50		
PRODUCING HORIZON	TOW	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRIVE POINT	POWER CLASSIFICATION	ARTESIAN	CASING GALVANIZED	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD	3	WITH RESPECT TO PRESSURE TANK	NONE	USE STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M)		CONFIDENCE OF PRODUCING DEPTH		SOURCE OF PRODUCING INFORMATION	
WELL DEPTH (M)		CONFIDENCE OF WELL DEPTH		SOURCE OF DEPTH INFORMATION	

REMARKS:

1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM COLONEL SPRING'S PIPE TO STOCK TANK NEXT TO DEAD TREE:

406359 TYPE SPRING WATER REPLICATE SAMPLER DAT AIR TEMP (C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4449 TIME TAKEN 14/30/07/79 RELIEF MODERATE VEGETATION CONIFER/DECIDUOUS-MODERATE
 LOCATION: LAT 45.469 (45 28' 8") LONG 103.188 (103 11' 18") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	510	DISSOLVED OXYGEN (PPM)	9.5
WATER TEMP (C)	+ 11.0	VISIBILITY (M)	CLEAR	PH 9.4	LO-ION PAPER
TOTAL ALKALINITY (PPM)	270	P ALKALINITY (PPM)	36	M ALKALINITY (PPM)	264
APPEARANCE	CLEAR	DISCHARGE (L/M)	2.00		
PRODUCING HORIZON	TOW	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRIVE POINT	POWER CLASSIFICATION	ARTESIAN	CASING GALVANIZED	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD	3	WITH RESPECT TO PRESSURE TANK	NONE	USE STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M)		CONFIDENCE OF PRODUCING DEPTH		SOURCE OF PRODUCING INFORMATION	
WELL DEPTH (M)		CONFIDENCE OF WELL DEPTH		SOURCE OF DEPTH INFORMATION	

REMARKS:

1-38 J. P. HILL 7.5 QUAD, SAMPLE TAKEN FROM CAMP SPRING'S PIPE TO STOCK TANK LOCATED IN HEAVY TREE GROWTH IN CANYON:

406360 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP (C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4450 TIME TAKEN 15/30/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.474 (45 28' 26") LONG 103.169 (103 10' 8") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOW RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	470	DISSOLVED OXYGEN (PPM)	11.9
WATER TEMP (C)	+ 10.5	VISIBILITY (M)	CLEAR	PH 9.5	LO-ION PAPER
TOTAL ALKALINITY (PPM)	256	P ALKALINITY (PPM)	42	M ALKALINITY (PPM)	256
APPEARANCE	CLEAR	DISCHARGE (L/M)	15.00		
PRODUCING HORIZON	TOW	CONFIDENCE	PROBABLE	SOURCE	GEOL. INFERENCE

WELL INFORMATION:

TYPE	DRIVE POINT	POWER CLASSIFICATION	ARTESIAN	CASING GALVANIZED	PIPE COMPOSITION GALVANIZED
METERS FROM HEAD	4	WITH RESPECT TO PRESSURE TANK	NONE	USE STOCK	PUMPING FREQUENCY CONSTANT
DEPTH TO PROD HORIZON (M)		CONFIDENCE OF PRODUCING DEPTH		SOURCE OF PRODUCING INFORMATION	

WELL DEPTH(M)

CONFIDENCE OF WELL DEPTH

SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM LEATHERBURY'S SPRING PIPE TO STOCK TANK LOCATED AT THE END OF GOOD DIRT PATH DOWN CANYON:

406361 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4451 TIME TAKEN 16/30/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.488 (45 29' 16") LONG 103.183 (103 10' 58") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOH RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR -CL QDOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 530 DISSOLVED OXYGEN(PPM) 10.1
 WATER TEMP(C) + 11.2 VISIBILITY(M) CLEAR PH 9.4 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 360 P ALKALINITY(PPM) 76 M ALKALINITY(PPM) 350
 APPEARANCE CLEAR DISCHARGE(L/M) 5.00
 PRODUCING HORIZON TOH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 4 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM PIPE TO STOCK TANK OF TEPEE SPRING NO. 1

406362 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4452 TIME TAKEN 16/30/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.487 (45 29' 13") LONG 103.183 (103 10' 58") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOH RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 700 DISSOLVED OXYGEN(PPM) 7.9
 WATER TEMP(C) + 19.3 VISIBILITY(M) CLEAR PH 8.2 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 352 P ALKALINITY(PPM) 55 M ALKALINITY(PPM) 356
 APPEARANCE CLEAR DISCHARGE(L/M)
 PRODUCING HORIZON TOH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE OTHER POWER CLASSIFICATION OTHER CASING OTHER PIPE COMPOSITION OTHER
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN DIRECTLY FROM OUTCROP OF TEPEE CANYON SPRING:
 3-18, 3-19, 3-20, 3-21 - ALL TAKEN FROM OUTCROP AND NO PIPES OR CASING WERE TO BE FOUND

406363 TYPE SPRING WATER REPLICATE SAMPLER DWT AIR TEMP(C) + 28.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4453 TIME TAKEN 17/30/07/79 RELIEF MODERATE VEGETATION CONIFER/DECIDUOUS-MODERATE

LOCATION: LAT 45.493 (45 29' 34") LONG 103.193 (103 11' 34") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOH RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 680 DISSOLVED OXYGEN (PPH) 72.5
 WATER TEMP (C) + 9.1 VISIBILITY (M) CLEAR PH 9.2 LO-ION PAPER
 TOTAL ALKALINITY (PPM) 405 P ALKALINITY (PPM) 44 M ALKALINITY (PPM) 400
 APPEARANCE CLEAR DISCHARGE (L/M) 2.00
 PRODUCING HORIZON TOH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 4 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 J. B. HILL 7.5 QUAD, SAMPLE TAKEN FROM BARNEY CASTLE SPRING'S PIPE TO STOCK TANK LOCATED IN FAIRLY DENSE TREE GROWTH.

406364 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP (C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4454 TIME TAKEN 14/31/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.538 (45 32' 16") LONG 103.191 (103 11' 27") CONTAMINANTS NONE SAMPLE: COLOR - -CL ODOR NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 770 DISSOLVED OXYGEN (PPH) 9.7
 WATER TEMP (C) + 11.3 VISIBILITY (M) CLEAR PH 6.7 LO-ION PAPER
 TOTAL ALKALINITY (PPM) 352 P ALKALINITY (PPM) <5 M ALKALINITY (PPM) 342
 APPEARANCE CLEAR DISCHARGE (L/M) 2.00
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 4 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN FROM SOAP HOLE SPRING'S PIPE TO STOCK TANK AT THE FOOT OF SLIM BUTTES ONE HALF MILE NORTH OF U.S. 20.

406365 TYPE STREAM SEDIMENT REPLICATE SAMPLER PGL AIR TEMP (C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4455 TIME TAKEN 15/31/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.555 (45 33' 18") LONG 103.266 (103 15' 57") CONTAMINANTS OTHER STREAM FLOW (M/SEC) NONE
 WATER: WIDTH (M) 1.00 DEPTH (M) 0.20 LEVEL LOW
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR L-GY-BN ODOR NONE

SEDIMENT INFORMATION:

SAMPLE CONDITION WET SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 20

REMARKS:

1-38 SHEEP PEN DRAW S.E. 7.5 QUAD, SAMPLE TAKEN OVER A 20M INTERVAL BEGINNING WHERE STREAM BENDS EASTWARD AND HEADING DOWNSTREAM.

1-60 CATTLE TRAMPLED BED AND MANURE:

406366 TYPE SPRING WATER REPLICATE SAMPLER PGL AIR TEMP(C) + 31.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4456 TIME TAKEN 15/31/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.551 (45 33' 3") LONG 103.188 (103 17' 6") CONTAMINANTS NONE
 SURFACE GEOL UNIT TOH RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 820 DISSOLVED OXYGEN (PPH) 73.0
 WATER TEMP (C) + 18.7 VISIBILITY (M) CLEAR PH 9.1 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 390 P ALKALINITY (PPH) 86 M ALKALINITY (PPH) 380
 APPEARANCE CLEAR DISCHARGE (L/H) 10.00
 PRODUCING HORIZON TOH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 900 WITH RESPECT TO PRESSURE TANK AFTER USE HOUSE/STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 BATTLESHIP ROCK 7.5 QUAD, SAMPLE TAKEN FROM BONNIEWELL SPRING NO. 2 PIPE TO STOCK TANK LOCATED 40 M SOUTH OF HOUSE:

406367 TYPE SPRING WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4271 TIME TAKEN 14/23/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.573 (45 34' 22") LONG 103.081 (103 4' 51") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 2690 DISSOLVED OXYGEN (PPH) 8.0
 WATER TEMP (C) + 22.7 VISIBILITY (M) CLEAR PH 7.9 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 513 P ALKALINITY (PPH) <5 M ALKALINITY (PPH) 494
 APPEARANCE ALGAL DISCHARGE (L/H) 0.10
 PRODUCING HORIZON TPFL CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING NONE PIPE COMPOSITION OTHER
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON (M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH (M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 REV A 7.5 TOPO, SAMPLE TAKEN FROM BAR H SPRING 60M OFF SMALL TRAIL IN SANDSTONE DRAW. SAMPLE TAKEN FROM POOL IN WHICH
 SPRING REPLENISHES ITSELF FROM BOTTOM OF POOL:
 1-60 ALGAE, STOCK (SHEEP) ALSO SANDSTONE ROCK IN WHICH POOL IS LOCATED:
 3-21 NO PIPE:

406368 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER -OVERCAST
 PHASE E MAP NL1309 SITE 4270 TIME TAKEN 13/23/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.531 (45 31' 51") LONG 103.085 (103 5' 6") CONTAMINANTS OTHER
 SURFACE GEOL UNIT KGMH RESULTS REG NO ,RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	1990	DISSOLVED OXYGEN (PPM)	4.6
WATER TEMP (C)	+ 17.9	VISIBILITY (M)	CLEAR	PH 7.2	LO-ION PAPER
TOTAL ALKALINITY (PPM)	668	P ALKALINITY (PPM)	< 5	M ALKALINITY (PPM)	658
APPEARANCE	CLEAR	DISCHARGE (L/M)	75.00		
PRODUCING HORIZON	KGMH	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING	PLASTIC	PIPE COMPOSITION	PLASTIC
METERS FROM HEAD	2	WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON (M)	61	CONFIDENCE OF PRODUCING DEPTH	POSSIBLE	SOURCE OF PRODUCING INFORMATION OWNER			
WELL DEPTH (M)	61	CONFIDENCE OF WELL DEPTH	POSSIBLE	SOURCE OF DEPTH INFORMATION OWNER			

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM WELL LOCATED SW OF FARM (ABOUT .5 MILES), SAMPLE TAKEN FROM PLASTIC PIPE 2M FROM WELL HEAD AT STOCK TANK;
 1-60 SUBMERSIBLE PUMP, STOCK USE;

406369	TYPE	SPRING WATER	REPLICATE	SAMPLER	JCA	AIR TEMP (C)	+ 26.0	WEATHER	-OVERCAST			
	PHASE	E	MAP	NL 1309	SITE	4272	TIME TAKEN	15/23/07/79	RELIEF	GENTLE	VEGETATION	DECIDUOUS-MODERATE
	LOCATION:	LAT 45.593 (45 35' 34")	LONG	103.183 (103 10' 58")			CONTAMINANTS	OTHER				
	SURFACE GEOL UNIT	TPFL	RESULTS	REQ	NO	RELEASED	800125	SAMPLE: COLOR		L-YL-CL	QDOR	NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	410	DISSOLVED OXYGEN (PPM)	6.3
WATER TEMP (C)	+ 22.6	VISIBILITY (M)	CLEAR	PH 8.1	LO-ION PAPER
TOTAL ALKALINITY (PPM)	214	P ALKALINITY (PPM)	< 5	M ALKALINITY (PPM)	210
APPEARANCE	CLEAR	DISCHARGE (L/M)	0.10		
PRODUCING HORIZON	TOW	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	OTHER	POWER CLASSIFICATION	ARTESIAN	CASING	NONE	PIPE COMPOSITION	OTHER
METERS FROM HEAD		WITH RESPECT TO PRESSURE TANK	NONE	USE	STOCK	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON (M)		CONFIDENCE OF PRODUCING DEPTH		SOURCE OF PRODUCING INFORMATION			
WELL DEPTH (M)		CONFIDENCE OF WELL DEPTH		SOURCE OF DEPTH INFORMATION			

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM LENA SPRING #2 LOCATED IN SMALL DUG OUT HOLE IN MAIN DRAIN;
 1-60 BUGS, SPRING IS FLOWING FROM BOTTOM OF DUGOUT HOLE;
 3-18 NATURAL SPRING AT PERCHED WATER TABLE;
 3-21 NONE;

406370	TYPE	WELL WATER	REPLICATE	SAMPLER	JCA	AIR TEMP (C)	+ 26.0	WEATHER	LT WIND-PT CLDY			
	PHASE	E	MAP	NL 1309	SITE	4273	TIME TAKEN	09/24/07/79	RELIEF	GENTLE	VEGETATION	GRASS-SPARSE
	LOCATION:	LAT 45.516 (45 30' 57")	LONG	103.194 (103 11' 38")			CONTAMINANTS	OTHER				
	SURFACE GEOL UNIT	TPFL	RESULTS	REQ	YES	RELEASED	800125	SAMPLE: COLOR		-CL	QDOR	NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY (MICROMHOS/CM)	1180	DISSOLVED OXYGEN (PPM)	1.8
WATER TEMP (C)	+ 17.2	VISIBILITY (M)	CLEAR	PH 9.0	LO-ION PAPER
TOTAL ALKALINITY (PPM)	364	P ALKALINITY (PPM)	80	M ALKALINITY (PPM)	364
APPEARANCE	CLEAR	DISCHARGE (L/M)	20.00		
PRODUCING HORIZON	KGMH	CONFIDENCE	PROBABLE	SOURCE GEOL. INFERENCE	

WELL INFORMATION:

TYPE	DRILLED	POWER CLASSIFICATION	ELECTRIC	CASING GALVANIZED	PIPE COMPOSITION	COPPER
METERS FROM HEAD	25	WITH RESPECT TO PRESSURE TANK	AFTER	USE HOUSEHOLD	PUMPING FREQUENCY	FREQUENT
DEPTH TO PROD HORIZON(M)	223	CONFIDENCE OF PRODUCING DEPTH	PROBABLE	SOURCE OF PRODUCING INFORMATION	OWNER	
WELL DEPTH(M)	223	CONFIDENCE OF WELL DEPTH	PROBABLE	SOURCE OF DEPTH INFORMATION	OWNER	

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM WELL AT HYDRANT SE OF HOUSE NEAR BARN, SAMPLE TAKEN FROM HYDRANT 25M FROM WELL AFTER PRESSURE TANK;
 1-60 HYDRANT;
 1-78 JOHN HELMS & REVA, SOUTH DAKOTA 57651;

406371	TYPE	SPRING WATER	REPLICATE	SAMPLER	JCA	AIR TEMP(C)	+ 26.0	WEATHER	LT WIND-PT CLDY				
	PHASE	E	MAP	NL 1309	SITE	4274	TIME TAKEN	10/24/07/79	RELIEF	LOW	VEGETATION	GRASS-SPARSE	
	LOCATION:	LAT	45.514 (45 30' 51")	LONG	103.186 (103 11' 9")				CONTAMINANTS	OTHER			
	SURFACE GEOL UNIT	TPFL	RESULTS	REQ	YES	RELEASED	800125		SAMPLE:	COLOR	L-YL-CL	QDQR	NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	4650	DISSOLVED OXYGEN(PPM)	1.7
WATER TEMP(C)	+ 17.5	VISIBILITY(M)	CLEAR	PH	7.3
TOTAL ALKALINITY(PPM)	680	P ALKALINITY(PPM)	75	M ALKALINITY(PPM)	680
APPEARANCE	CLEAR	DISCHARGE(L/M)	20.00	SOURCE	GEOL. INFERENCE
PRODUCING HORIZON	KGMH	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRIVE POINT	POWER CLASSIFICATION	ARTESIAN	CASING GALVANIZED	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)		CONFIDENCE OF PRODUCING DEPTH		SOURCE OF PRODUCING INFORMATION		
WELL DEPTH(M)		CONFIDENCE OF WELL DEPTH		SOURCE OF DEPTH INFORMATION		

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM SPRING WEST OF HOUSE AT STOCK TANK FROM GALVANIZED PIPE, LHM OF GALVANIZED PIPE BEFORE DRAINS INTO STOCK TANK;
 1-60 STOCK USE, PIPE;
 1-78 JOHN HELM & REVA, SOUTH DAKOTA 57651;

406372	TYPE	SPRING WATER	REPLICATE	SAMPLER	JCA	AIR TEMP(C)	+ 26.5	WEATHER	LT WIND-PT CLDY				
	PHASE	E	MAP	NL 1309	SITE	4275	TIME TAKEN	11/24/07/79	RELIEF	MODERATE	VEGETATION	GRASS-SPARSE	
	LOCATION:	LAT	45.496 (45 29' 45")	LONG	103.182 (103 10' 55")				CONTAMINANTS	OTHER			
	SURFACE GEOL UNIT	TPFL	RESULTS	REQ	YES	RELEASED	800125		SAMPLE:	COLOR	-CL	QDQR	NONE

GENERAL WATER INFORMATION:

TREATMENT	NONE	CONDUCTIVITY(MICROMHOS/CM)	860	DISSOLVED OXYGEN(PPM)	21.0
WATER TEMP(C)	+ 14.2	VISIBILITY(M)	CLEAR	PH	9.5
TOTAL ALKALINITY(PPM)	460	P ALKALINITY(PPM)	180	M ALKALINITY(PPM)	460
APPEARANCE	CLEAR	DISCHARGE(L/M)	10.00	SOURCE	GEOL. INFERENCE
PRODUCING HORIZON	TOW	CONFIDENCE	PROBABLE		

WELL INFORMATION:

TYPE	DRIVE POINT	POWER CLASSIFICATION	ARTESIAN	CASING GALVANIZED	PIPE COMPOSITION	GALVANIZED
METERS FROM HEAD	1	WITH RESPECT TO PRESSURE TANK	NONE	USE STOCK	PUMPING FREQUENCY	CONSTANT
DEPTH TO PROD HORIZON(M)		CONFIDENCE OF PRODUCING DEPTH		SOURCE OF PRODUCING INFORMATION		
WELL DEPTH(M)		CONFIDENCE OF WELL DEPTH		SOURCE OF DEPTH INFORMATION		

REMARKS:

1-38 J.B. HILL 7.5' TOPO, SAMPLE TAKEN AT TRAIL SPRING SOUTH OF FARM HOUSE SAMPLE TAKEN FROM GALVANIZED PIPE AT STOCK TANK ON TOP OF SMALL BUTTE;
 1-60 STOCK TANK;
 1-78 JOHN HELM & REVA S.D. 57651;

406373 TYPE SPRING WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 26.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4276 TIME TAKEN 12/24/07/79 RELIEF GENTLE VEGETATION BRUSH-SPARSE
 LOCATION: LAT 45.505 (45 30' 18") LONG 103.169 (103 10' 8") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TOW RESULTS REQ YES, RELEASED 800 125 SAMPLE: COLOR L-GY-BN QDQR H2S

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2330 DISSOLVED OXYGEN(PPM) 11.2
 WATER TEMP(C) + 22.1 VISIBILITY(M) 0.10 PH 8.8 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 345 P ALKALINITY(PPM) 24 M ALKALINITY(PPM) 347
 APPEARANCE MURKY DISCHARGE(L/M) 1.00 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON TOW CONFIDENCE POSSIBLE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 5 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 BATTLESHIP ROCK, BLACK SPRING SAMPLE SITE, SAMPLE TAKEN FROM SEDIMENT LAIDEN STOCK TANK AT BOTTOM OF SMALL DRAW;
 1-60 SEDIMENT, STOCK TANK;
 1-78 JOHN HELM & REVA, SOUTH DAKOTA 57651;

406375 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 26.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4277 TIME TAKEN 13/24/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.513 (45 30' 46") LONG 103.168 (103 10' 4") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800 125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3550 DISSOLVED OXYGEN(PPM) 24.5
 WATER TEMP(C) + 22.9 VISIBILITY(M) CLEAR PH 8.2 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 521 P ALKALINITY(PPM) 45 M ALKALINITY(PPM) 520
 APPEARANCE CLEAR DISCHARGE(L/M) 10.00 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON KGMH CONFIDENCE PROBABLE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION WIND CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 3 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) 36 CONFIDENCE OF PRODUCING DEPTH HIGH SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 36 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM WELL STRAIT EAST OF HOUSE AT WINDMILL-STOCK TANK, SAMPLE TAKEN AT STOCK TANK 3M FROM WELLHEAD;
 1-60 STOCK TANK, GALVANIZED PIPE;
 1-78 JOHN HELM & REVA, S.D. 57651;

406376 TYPE SPRING WATER REPLICATE SAMPLER JCA AIR TEMP(C) +26.0 WEATHER LT WIND-OVERCAST
 PHASE E MAP NL1309 SITE 4278 TIME TAKEN 10/24/07/79 RELIEF MODERATE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.528(45 31'40") LONG 103.180(103 10'48") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REQ NO , RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 880 DISSOLVED OXYGEN(PPM) 12.9
 WATER TEMP(C) +14.7 VISIBILITY(M) CLEAR PH 9.7 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 600 P ALKALINITY(PPM) 125 H ALKALINITY(PPM) 582
 APPEARANCE CLEAR DISCHARGE(L/M) 1.00 SOURCE GEOL. INFERENCE
 PRODUCING HORIZON TOH CONFIDENCE PROBABLE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ARTESIAN CASING OTHER PIPE COMPOSITION OTHER
 METERS FROM HEAD 1 WITH RESPECT TO PRESSURE TANK NONE USE NONE PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:
 1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM PARK WELL LOCATED IN REVA CAMPGROUND;
 1-60 CEMENT CULVERT, SEDIMENT IN WATER;
 3-20 CEMENT;
 3-21 NONE;

406377 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP(C) +26.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4279 TIME TAKEN 12/27/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.596(45 35'45") LONG 103.057(103 3'25") CONTAMINANTS NONE STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR D-RD-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 7 ORGANIC MATERIAL(%) 10

REMARKS:
 1-38 REVA 7.5' QUAD., SAMPLE TAKEN OVER A 20M INTERVAL STARTING 25M UPSTREAM FROM WEST END OF STOCK DAM;
 1-78 MARY THYBO & BAR H RANCH & REVA, S.D. 57651;

406378 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP(C) +27.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4280 TIME TAKEN 13/27/07/79 RELIEF LOW VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.590(45 35'24") LONG 103.039(103 2'20") CONTAMINANTS OTHER STREAM FLOW(M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REQ YES , RELEASED 800125 WATER: WIDTH(M) DEPTH(M) LEVEL DRY
 BED MATERIAL CLAY SAMPLE: COLOR D-BK-GY ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL(%) 20

REMARKS:
 1-38 REVA 7.5' TOPO, SAMPLE TAKEN AT STREAM SE OF BROKEN WINDMILL, SAMPLE TAKEN SOUTH OF STOCK DAM OVER 20M INTERVAL;
 1-60 GRASS, CATTLE;
 1-78 MARY JHYBO & BAR H RANCH & REVA S.D. 57651;

406379 TYPE STREAM SEDIMENT REPLICATE SAMPLER DWT AIR TEMP (C) + 28.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4281 TIME TAKEN 13/27/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.604 (45 36'14") LONG 103.041 (103 2'27") CONTAMINANTS OTHER STREAM FLOW (M/SEC)
 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 BED MATERIAL SILT SAMPLE: COLOR M-GY-BN ODOR NONE

SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 8 ORGANIC MATERIAL (%) 05

REMARKS:
 1-38 REVA, 7.5' QUAD., SAMPLE TAKEN OVER A 1/2 H INTERVAL, STARTING WHERE A SMALL TRIBUTARY STREAM ENTERS AND BEFORE STREAM MEANDERS WESTWARD.
 1-60 CATTLE:

406380 TYPE WELL WATER REPLICATE SAMPLER DWT AIR TEMP (C) + 29.3 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4282 TIME TAKEN 14/27/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.588 (45 35'16") LONG 103.060 (103 3'36") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR L-GY-BN ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHO'S/CM) 3030 DISSOLVED OXYGEN (PPH) 1.2
 WATER TEMP (C) + 12.5 VISIBILITY (M) 3.00 PH 8.3 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 536 P ALKALINITY (PPH) 20 M ALKALINITY (PPH) 540
 APPEARANCE MURKY DISCHARGE (L/M) 20.00
 PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 7 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY RARE
 DEPTH TO PROD HORIZON (M) 33 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH (M) 33 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:
 1-38 REVA, 7.5' QUAD., SAMPLE TAKEN FROM PUMP ABOVE WELL LOCATED ALONG POWER LINE, AND NEXT TO STEEL BUILDING.
 1-78 MARY THYBO & BAR H RANCH & REVA, S.D., 57651:

406381 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP (C) + 29.3 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4283 TIME TAKEN 14/27/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.600 (45 36' 0") LONG 103.090 (103 5'24") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPFL RESULTS REQ YES, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHO'S/CM) 1350 DISSOLVED OXYGEN (PPH) 1.8
 WATER TEMP (C) + 16.3 VISIBILITY (M) CLEAR PH 9.2 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 480 P ALKALINITY (PPH) 82 M ALKALINITY (PPH) 462
 APPEARANCE CLEAR DISCHARGE (L/M)
 PRODUCING HORIZON KGHH CONFIDENCE POSSIBLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING STEEL PIPE COMPOSITION PLASTIC
 METERS FROM HEAD 12 WITH RESPECT TO PRESSURE TANK AFTER USE STOCK PUMPING FREQUENCY INFREQUENT
 DEPTH TO PROD HORIZON (M) 80 CONFIDENCE OF PRODUCING DEPTH POSSIBLE SOURCE OF PRODUCING INFORMATION GEOL. INFERENCE
 WELL DEPTH (M) 80 CONFIDENCE OF WELL DEPTH POSSIBLE SOURCE OF DEPTH INFORMATION GEOL. INFERENCE

REMARKS:

1-38 REVA, 7.5' QUAD., SAMPLE TAKEN FROM HYDRANT 12M SOUTH OF WELL, WHICH IS LOCATED IN PASTURE ALONG POWER LINES, NEAR A SMALL DRAW;
 1-78 MARY THYBO & BAR H RANCH & REVA, S.D., 57651

406382 TYPE SPRING WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4284 TIME TAKEN 14/27/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.620 (45 37' 12") LONG 103.087 (103 5' 13") CONTAMINANTS OTHER SAMPLE: COLOR -CL ODOR NONE
 SURFACE GEOL UNIT KGHH RESULTS REG NO , RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3290 DISSOLVED OXYGEN(PPM) 6.5
 WATER TEMP(C) + 17.2 VISIBILITY(M) CLEAR PH 8.0 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 540 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 530
 APPEARANCE CLEAR DISCHARGE(L/H) 7.00
 PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 15 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM SPRING OUT OF GALVANIZED PIPE NE OF FARM HOUSE IN FIRST DRAW NE OF HOUSE;
 1-60 (PIPE RUSTY) 1-78 MARY THYBO & BAR H RANCH & REVA, SOUTH DAKOTA 57651

406383 TYPE SPRING WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4285 TIME TAKEN 15/27/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.623 (45 37' 22") LONG 103.084 (103 5' 2") CONTAMINANTS OTHER SAMPLE: COLOR -CL ODOR NONE
 SURFACE GEOL UNIT KGHH RESULTS REG YES , RELEASED 800125

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 3990 DISSOLVED OXYGEN(PPM) 2.5
 WATER TEMP(C) + 17.3 VISIBILITY(M) CLEAR PH 7.6 LO-ION PAPER
 TOTAL ALKALINITY(PPM) 630 P ALKALINITY(PPM) <5 M ALKALINITY(PPM) 626
 APPEARANCE CLEAR DISCHARGE(L/H) 7.00
 PRODUCING HORIZON TPFL CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRIVE POINT POWER CLASSIFICATION ARTESIAN CASING STEEL PIPE COMPOSITION PLASTIC
 METERS FROM HEAD INK WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON(M) CONFIDENCE OF PRODUCING DEPTH SOURCE OF PRODUCING INFORMATION
 WELL DEPTH(M) CONFIDENCE OF WELL DEPTH SOURCE OF DEPTH INFORMATION

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM SPRING IN FIRST DRAW NE OF HOUSE AT SECOND SPRING TO THE NORTH;
 1-60 #3-22-SAMPLE TAKEN FROM WOODEN TANK;
 1-78 MARY THYBO & BAR H RANCH & REVA, S.D., 57651

406384 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 30.0 WEATHER LT WIND-CLEAR

PHASE E MAP NL1309 SITE 4286 TIME TAKEN 18/27/07/79 RELIEF GENTLE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.619(45 37' 8") LONG 103.057(103 3'25") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REG YES, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 4640 DISSOLVED OXYGEN(PPH) 1.3
 WATER TEMP(C) + 14.0 VISIBILITY(M) CLEAR PH 8.1 LO-TON PAPER
 TOTAL ALKALINITY(PPH) 742 P ALKALINITY(PPH) <5 M ALKALINITY(PPH) 730
 APPEARANCE CLEAR DISCHARGE(L/H) 10.00
 PRODUCING HORIZON KGMH CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION WIND CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON(M) 75 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 75 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 REVA 7.5' TOPO, SAMPLE TAKEN FROM WINDMILL IN CENTER OF LARGE PASTURE OUT OF GALVANIZED PIPE LEADING TO STOCK TANK IN SECTION SEVEN SE CORNER;
 1-60 STOCK TANK PIPE;
 1-78 MARY THYBO & BAR H RANCH & REVA, S.D., 57651;

406385 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 30.0 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL1309 SITE 4287 TIME TAKEN 18/27/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.618(45 37' 4") LONG 103.115(103 6'54") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPFL RESULTS REG YES, RELEASED 800125 SAMPLE: COLOR - -CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 2710 DISSOLVED OXYGEN(PPH) 2.0
 WATER TEMP(C) + 12.6 VISIBILITY(M) CLEAR PH 8.3 LO-TON PAPER
 TOTAL ALKALINITY(PPH) 670 P ALKALINITY(PPH) 40 M ALKALINITY(PPH) 664
 APPEARANCE CLEAR DISCHARGE(L/H) 25.00
 PRODUCING HORIZON KGMH CONFIDENCE POSSIBLE SOURCE GEOL INFERENCE

WELL INFORMATION:

TYPE DRILLED POWER CLASSIFICATION ELECTRIC CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY INFREQUENT
 DEPTH TO PROD HORIZON(M) 84 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH(M) 84 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:

1-38 REVA, 7.5' QUAD., SAMPLE TAKEN FROM PUMP ABOVE WELL LOCATED AT END OF POWER LINE 1.6 KM WEST OF HOUSE;
 1-78 MARY THYBO & BAR H RANCH & REVA, S.D., 57651;

406386 TYPE WELL WATER REPLICATE SAMPLER JCA AIR TEMP(C) + 26.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL1309 SITE 4288 TIME TAKEN 18/27/07/79 RELIEF MODERATE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.595(45 35'42") LONG 103.162(103 9'43") CONTAMINANTS OTHER
 SURFACE GEOL UNIT TPFL RESULTS REG YES, RELEASED 800125 SAMPLE: COLOR L-OR-CL ODOR NONE

GENERAL WATER INFORMATION:

TREATMENT NONE CONDUCTIVITY(MICROMHOS/CM) 1230 DISSOLVED OXYGEN(PPH) 7.5
 WATER TEMP(C) + 12.1 VISIBILITY(M) CLEAR PH 9.2 LO-TON PAPER

TOTAL ALKALINITY (PPH) 400 P ALKALINITY (PPH) 80 M ALKALINITY (PPH) 375
 APPEARANCE OTHER DISCHARGE (L/H) 10.00
 PRODUCING HORIZON KGMH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION GASOLINE CASING STEEL PIPE COMPOSITION STEEL
 METERS FROM HEAD 7 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY CONSTANT
 DEPTH TO PROD HORIZON (M) 93 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH (M) 93 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:
 1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN FROM PIPE SUPPLYING WATER TO STOCK TANK 7M FROM WELL LOCATED NEAR MCPHERSON CREEK TO THE SOUTH;
 1-60 STEEL PUMP;
 1-78 MARY THYBO, REVA, S.D. 57651;

406387 TYPE STREAM SEDIMENT REPLICATE SAMPLER JCA AIR TEMP (C) + 26.0 WEATHER LT WIND-CLEAR
 PHASE E MAP NL 1309 SITE 4289 TIME TAKEN 12/27/07/79 RELIEF MODERATE VEGETATION GRASS-SPARSE
 LOCATION: LAT 45.593 (45 35' 34") LONG 103.154 (103 9' 14") CONTAMINANTS NONE STREAM FLOW (M/SEC)
 SURFACE GEOL UNIT TPFL RESULTS REG NO , RELEASED 800125 WATER: WIDTH (M) DEPTH (M) LEVEL DRY
 BED MATERIAL SAND SAMPLE: COLOR L-GY-BN ODOR NONE
 SEDIMENT INFORMATION:
 SAMPLE CONDITION DRY SAMPLE TREATMENT NONE NUMBER OF GRABS 15 ORGANIC MATERIAL (%) 05

REMARKS:
 1-38 BATTLESHIP ROCK 7.5' TOPO, SAMPLE TAKEN IN DRAW SOUTH OF FENCE LINE ON "HUNTERS" TYPE PATH AT THE NORTH END OF SHIM BUTTES OVER 30 METER INTERVAL EAST OF WELL.

406388 TYPE WELL WATER REPLICATE SAMPLER DWT AIR TEMP (C) + 27.5 WEATHER LT WIND-PT CLDY
 PHASE E MAP NL 1309 SITE 4290 TIME TAKEN 10/28/07/79 RELIEF GENTLE VEGETATION GRASS-MODERATE
 LOCATION: LAT 45.624 (45 37' 26") LONG 103.159 (103 9' 32") CONTAMINANTS NONE
 SURFACE GEOL UNIT TPFL RESULTS REG YES , RELEASED 800125 SAMPLE: COLOR -CL ODOR NONE

GENERAL WATER INFORMATION:
 TREATMENT NONE CONDUCTIVITY (MICROMHOS/CM) 1530 DISSOLVED OXYGEN (PPH) 3.5
 WATER TEMP (C) 7.5 VISIBILITY (M) CLEAR PH 8.8 LO-ION PAPER
 TOTAL ALKALINITY (PPH) 410 P ALKALINITY (PPH) 50 M ALKALINITY (PPH) 384
 APPEARANCE CLEAR DISCHARGE (L/H) 50
 PRODUCING HORIZON KGMH CONFIDENCE PROBABLE SOURCE GEOL. INFERENCE

WELL INFORMATION:
 TYPE DRILLED POWER CLASSIFICATION WIND CASING GALVANIZED PIPE COMPOSITION GALVANIZED
 METERS FROM HEAD 8 WITH RESPECT TO PRESSURE TANK NONE USE STOCK PUMPING FREQUENCY FREQUENT
 DEPTH TO PROD HORIZON (M) 84 CONFIDENCE OF PRODUCING DEPTH PROBABLE SOURCE OF PRODUCING INFORMATION OWNER
 WELL DEPTH (M) 84 CONFIDENCE OF WELL DEPTH PROBABLE SOURCE OF DEPTH INFORMATION OWNER

REMARKS:
 1-38 BATTLESHIP ROCK, 7.5' QUAD., SAMPLE TAKEN FROM PIPE TO STOCK TANK 8M WEST OF WELL, LOCATED 4.8 KM WEST OF HOUSE;
 1-78 MARY THYBO & BAR H RANCH & REVA, S.D. 57651

LAB WATERS	402392	001	BUFFALO-LIGNI	055	BUFFALO-LIGNI	404836	109	BUFFALO-LIGNI	406009	163	BUFFALO-LIGNI		217
	402392	002		056		404840	110			164	406211		218
	402392	003	402400	057			111			165			219
	406036	004	402404	058			112		406021	166	406218		220
	406036	005		059			113			167			221
	406036	006		060		404856	114		406028	168			222
	406352	007	402416	061			115			169			223
	406352	008		062		404863	116			170	406229		224
	406352	009	404213	063			117			171			225
LAB SEDIMENT	402268	010		064			118		406042	172	406237		226
	402268	011	404223	065			119			173	406241		227
	402268	012	404605	066			120		406047	174	406244		228
	404213	013		067		404890	121		406050	175			229
	404213	014	404696	068		404894	122		406054	176			230
	404213	015	404700	069			123			177			231
	404734	016		070			124		406061	178	406266		232
	404734	017	404708	071		404905	125		406064	179	406270		233
	404734	018	404712	072			126			180	406274		234
	404824	019		073		404913	127		406071	181	406278		235
	404824	020	404719	074		404917	128		406076	182			236
	404824	021	404723	075			129			183			237
	404901	022		076		404924	130			184	406290		238
	404901	023	404730	077		404973	131			185	406294		239
	404901	024		078		404977	132			186			240
	405884	025		079		404981	133			187	406301		241
	405884	026		080		404985	134		406095	188	406304		242
	405884	027	404741	081		404989	135		406099	189			243
	405994	028		082			136			190			244
	405994	029	404747	083			137		406107	191			245
	405994	030	404750	084		405876	138		406112	192			246
	406064	031	404754	085		405880	139			193	406320		247
	406064	032		086			140			194			248
	406064	033		087		405887	141		406120	195	406326		249
	406139	034		088		405890	142		406123	196			250
	406139	035		089			143		406129	197			251
	406139	036	404769	090		405897	144		406134	198	406337		252
	406199	037		091			145			199	406342		253
	406199	038		092			146		406141	200	406346		254
	406199	039		093			147			201	406350		255
	406288	040		094			148		406148	202			256
	406288	041		095		405913	149			203	406356		257
	406288	042		096		405917	150		406156	204			258
	406392	043		097			151		406160	205			259
	406392	044	404796	098		405925	152			206			260
	406392	045		099			153		406168	207	406366		261
		046		100		405932	154		406172	208			262
BUFFALO-LIGNI	402268	047	404808	101		405936	155			209			263
	402272	048		102			156		406181	210			264
		049	404815	103		405943	157		406185	211	406376		265
		050		104		405946	158			212	406379		266
	402284	051	404822	105		405993	159		406192	213	406382		267
	402288	052		106		405998	160		406196	214			268
	402292	053		107			161			215			269
		054		108		406005	162		406204	216			