

**ASSESSMENT OF ARCHAEOLOGICAL
RESOURCES WITHIN THE ST. MARY
AVENUE EXTENSION RIGHT-OF-WAY**

Prepared For

I. D. SYSTEMS LTD.

**Quaternary
Consultants
Limited**

July, 1990

1.0 INTRODUCTION

The City of Winnipeg will be undertaking an upgrading of the Provencher Bridge and extensions of York and St. Mary Avenue from Main Street to the new bridge approaches. The project will have sub-surface impact on various locations within the East Yard (Figure 1). An archaeological impact assessment of the impact areas east of Pioneer Boulevard was undertaken during 1988 (Quaternary 1989). An impact assessment of the extensions of York and St. Mary Avenue, between the CNR Main Line Embankment and Pioneer Boulevard was conducted in 1989 (Quaternary 1990). This assessment found that there was evidence of Pre-Contact occupation horizons within the right-of-way of the proposed extension of St. Mary Avenue, between the CNR Main Line Embankment and Pioneer Boulevard.

With the evidence of Pre-Contact ceramic occupations along St. Mary Avenue, Historic Resources Branch [Manitoba Culture, Heritage and Recreation] decided that a more detailed examination of the sub-surface resources within the right-of-way was required. Accordingly, the project engineers, I. D. Engineering Ltd., engaged Quaternary Consultants Ltd. (letter of April 27, 1990) to undertake the necessary assessments.

In accordance with the provisions of the Manitoba Heritage Resources Act, Quaternary Consultants applied for and received Manitoba Heritage Permit #A20-90 to conduct the project (Appendix A). In addition, a City of Winnipeg Services Inspection Permit (District 1 - #18656) was obtained (Appendix A).

Field operations were conducted on May 29 and 30, 1990. A series of nine backhoe trenches were excavated along the St. Mary Avenue right-of-way, between the CNR Main Line and Pioneer Boulevard (Figure 2).

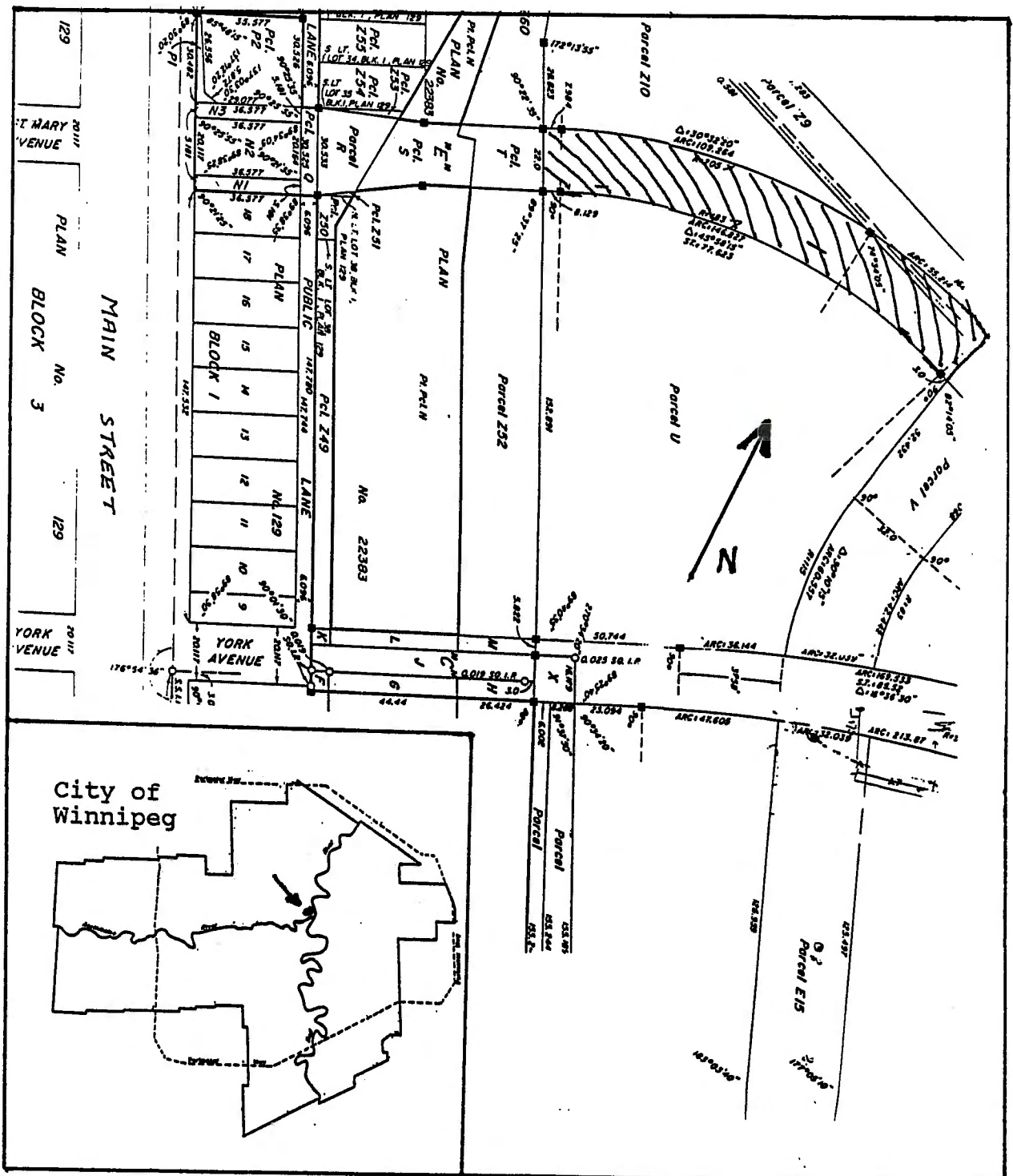
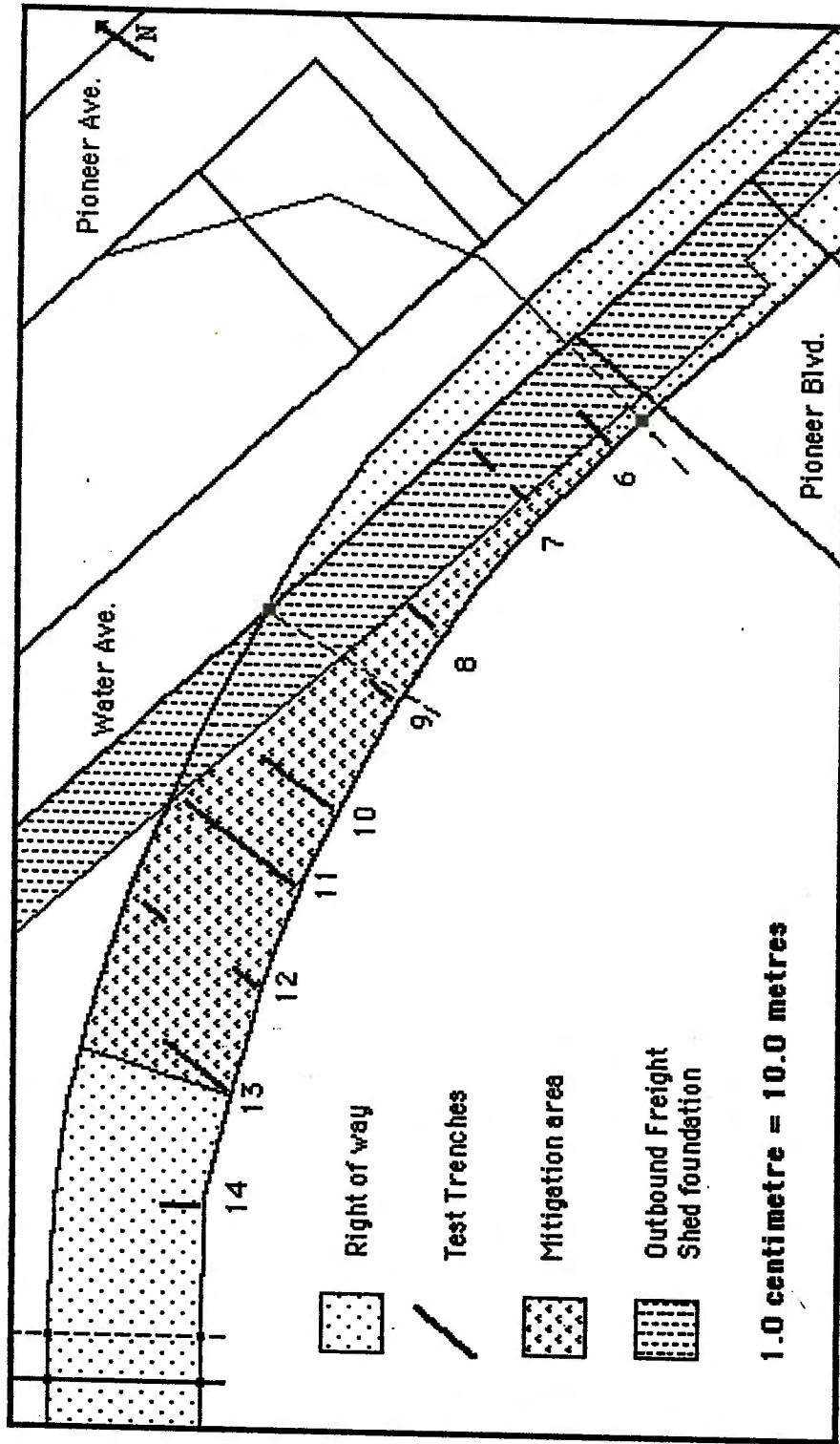


Figure 1: Impact Zones in East Yard



St. Mary's Avenue Extension: Right of Way Impact Assessment.

Figure 2: Location of St. Mary Assessment Trenches

1.1 Project Staffing

The project was directed by Sid Kroker, Senior Archaeologist with Quaternary Consultants Ltd. Field personnel consisted of Peter Filopoulos, Sharon Thomson and Paul Speidel. Laboratory processing of the material and artifact identification was conducted by Peter Filopoulos, under the direction of Pam Goundry (Research Archaeologist with Quaternary Consultants Ltd.). Computer cataloguing of the recovered materials was undertaken by Peter Filopoulos and Sharon Thomson. The computer maps (Figure 2, Figure 3) were prepared by Peter Filopoulos. The preparation of the report was done by Sid Kroker.

2.0 INVESTIGATION METHODOLOGY

The provenience of all investigation locations has been surveyed into The Forks Archaeological Survey Grid. This metric grid is based upon the City of Winnipeg survey marker (87R548) as the Site Datum. This marker, located on the north end of the Low Line Bridge across the Assiniboine River, has been assigned the arbitrary provenience of 1000N/1000W. The 1000E/W Baseline extends from the marker to the second concrete pier (to the south of the embankment) of the CNR Main Line. The locations of the backhoe exploratory excavation trenches have been recorded in relation to the Site Datum and the E/W Baseline. The locations are recorded in Appendix B.

2.1 Backhoe Exploratory Excavations

An archaeological team, consisting of a rubbermount backhoe with a skilled operator, the senior archaeologist and three assistant archaeologists, was deployed. The method of investigation was the same as had been developed during the North Assiniboine Node Impact Assessment (Kroker 1989), the Provencher Bridge Assessment (Quaternary 1989) and the York/St. Mary Assessment (Quaternary

1990). The backhoe, using a 24" bucket, would excavate the exploratory trench in thin layers, usually 5 to 10 cm thick. The extractant soil would be spread at the side of the trench and the archaeological team would examine it, using garden rakes to spread the material. The presence of relict soil zones and/or cultural material required detailed examination of the extracted soil, using trowels. All artifacts were collected and the depth below surface was recorded for each recovery. The material was taken to the laboratory facilities for further processing. The soil profile of each excavated trench was recorded, to permit sub-surface mapping of the stratigraphy of the impact zone.

The trenches were of varying lengths, depending upon the recoveries and the presence of disturbance caused by the construction of Freight Shed #1 (Figure 2). Some of the trenches were excavated as two disjunct segments. The depths of the excavations varied. Some trenches were excavated to the level of the cultural horizon, while others were taken to more than three meters. The depth of assessment was determined by:

- a: presence or absence of an upper cultural horizon, and
- b: depth of disturbance.

2.2 Laboratory Procedures

All recovered artifacts were washed, identified and sorted by provenience (i.e., location on the site [trench number] and stratigraphic level). Identification procedures consisted of ascertaining the material of which the artifact was composed, as well as determining the function of the object and the method of manufacture. Additional descriptive data, such as color, date of manufacture, name of manufacturer, and condition of the artifact, were recorded when ascertainable. Whenever possible, the cultural affiliation of the artifact was determined (e.g., Blackduck; Recent Euro-Canadian; Pre-Contact; etc.).

All of the faunal remains were examined and identified as specifically as possible: body part, age of individual, and species, where possible. Any evidence of butchering techniques, such as cutting or sawing, was recorded. The condition of each specimen was noted, i.e., charred, broken, calcined, etc. The specimens were identified using standard references: Olsen (1960, 1964), Gilbert (1973), DeBlase and Martin (1974), Mundell (1975), Clarke (1981), Scott and Crossman (1973). Floral remains were identified as specifically as possible, using Montgomery (1977). Specimens were identified to the lowest taxonomic ranking wherever possible, although incompleteness of the element often resulted in identification at the Family, Order or Class level.

After the artifacts had been prepared, the locational and identifying data were entered into the computer cataloguing system. Each artifact, or cluster of artifacts, received a sequential catalogue number which consisted of the Borden designation for The Forks (D1Lg-33), followed by the project designator (90B - indicating the second project of 1990 on the site) and the specimen number (e.g., D1Lg-33/90B-1234).

The cataloguing system is based upon the Canadian Heritage Inventory Network (CHIN) system (Manitoba Museum of Man and Nature 1986; FRC 1988:110, 171). The computer program was developed by Brian Lenius, based upon **DBASE3**, for use on personal computers. The project used an IBM AT clone computer with a 40 megabyte hard drive and a dot matrix printer for the generation of individual artifact catalogue cards on fanfold 3" x 5" cards.

Processed artifacts were prepared for storage by inserting the specimens and the catalogue card into a standard plastic storage bag and stapling the bag closed. All analysis and research on the artifacts was undertaken at the laboratory facilities of Quaternary Consultants Ltd. At the end of the project, all

recovered artifacts will be taken to the repository designated by the City of Winnipeg.

3.0 ARCHAEOLOGICAL RECOVERIES

For all sub-surface investigations, soil profiles were recorded and the recovered artifacts were curated and catalogued. All stratigraphic sequences were divided into three major levels, to conform with data recovered from other archaeological projects at The Forks. These levels are:

Level 1	Railroad Fill Stratum	Usually consisting of gravel, cinder, ash, sand, or clay. Often containing historic artifacts.
Level 2	Early Historic Stratum	Correlated with the period between 1737 (La Verendrye) and the arrival of the railroad (1888). Marked by evidence of historically recorded floods (1793, 1826, 1850, 1882). Consists of discrete clay/silt strata, occasionally separated by a thin, juvenile soil layer.
Level 3	Pre-Contact Native Ceramic Stratum	Numerous discrete soil zones, separated by layers of river-deposited silts and clays. Several soil zones contain evidence of occupation: fish and mammal bone, ceramic sherds, lithic tools and flakes, hearth, etc.

3.1 Investigation Trenches

Details of the nine exploratory test trenches are provided below. The number sequence continues from the 1989 assessment, wherein the first trench of the 1990 investigation begins at Trench 6. All trenches were situated within the right of way and oriented to the north. They were located within 0.5 meters of the south boundary and spaced approximately 10 to 20 meters apart. The final trench, number 14 was situated approximately 25 meters east of the CNR main line embankment (Figure 2).

3.1.1 Trench 6

This unit was excavated approximately 8 meters southwest of Pioneer Boulevard and Water Avenue. The length of the trench was 6.2 meters and it was excavated to 260 cm below surface.

The upper 140 cm consisted of railway fills including; gravel, clays, silts and industrial debris. A thin layer of animal manure, about 10 cm thick, was below the fill. Under the manure, stratified riverine deposits of silts and clays continued to a depth of 260 cm. A cultural horizon occurred at this depth. Within the riverine deposits a portion of a concrete footing was encountered, the top of which began at a depth of 150 cm. This footing is most likely associated with the foundations of Freight Shed #1.

The cultural horizon at 260 cm below surface contained fish bone, mammal bone, a flake of Selkirk chert and some undiagnostic ceramic body sherds. The occupation is identified as Late Woodland. A total of 128 artifacts were recovered from the horizon.

3.1.2 Trench 7

This trench was excavated as two sections, 7a and 7b. They were separated by a concrete footing encountered at the southern extension of 7a. Trench 7a was located approximately 22.25 metres west of Water Avenue and Pioneer Boulevard and began 2.30 metres south of the snow fence or sidewalk along Water Avenue. The length of Trench 7a was 3.94 metres. It was excavated to a depth of 225 cm. Trench 7b was located 3.40 metres north of Trench 7a and was 2.52 metres long with a depth of 212 cm.

The stratigraphy of Trench 7a consisted of railway fill that contained historic artifacts which included glass, stoneware,

earthenware, nails, and mammal bone. At 225 cm, river deposits were encountered. A metal fragment and fish bone were found at the interface between the fill and the natural river flood deposits.

Trench 7b was excavated to a depth of 212 cm. The stratigraphy of this unit was consistent with the profile observed in Trench 7a. A cultural horizon was encountered at 212 cm. Artifacts found in the cultural horizon consisted of fish bone fragments, tentatively identified as catfish. Although no diagnostic artifacts were recovered, it is probable that this horizon is also associated with Late Woodland cultures.

3.1.3 Trench 8

This unit was excavated 45.64 meters west of the junction of Water Avenue and Pioneer Boulevard. The length and depth were 3.71 meters and 133 cm, respectively. At the northern extent of this unit, a concrete footing was encountered.

The top 110 cm consisted of railway fill, below which riverine clay and silt flood deposits occurred. At a depth of 133 cm, a cultural horizon was discovered measuring 3 to 5 cm thick. The artifacts included fish bone, mammal bone, ceramics, lithics and fire-cracked rock. Artifacts of particular significance include a biface fragment, a bone tool fragment and a punctate rim sherd with a fabric-impressed neck and a pinched lip. The stylistic characteristics of the rim sherd indicate a Late Woodland cultural affiliation.

3.1.4 Trench 9

This trench was located 62 meters west of Pioneer Boulevard and 0.5 meters north of the southern boundary of the right-of-way. The trench was 4.40 meters long and 137 cm deep.

The strata included 100 cm of railway fill overlying an historic soil horizon (ca. 1890) over silty/clays. Within the silty/clays two A horizons were visible and below that, at a depth of 127 cm, a 'plow zone', about 10 cm thick, occurred. The plow zone is probably associated with the Hudson's Bay Company Experimental Farm (1836-1848) and contained Pre-Contact artifacts and a lip from a beverage bottle. The plowing had the effect of mixing Pre-Contact material from below the surface with historic artifacts. Pre-Contact artifacts were found throughout the plow zone and included; fish bone, mammal bone, lithics and ceramics. One recovered ceramic sherd had cord-wrapped object impressions (CWOI) on the lip and fabric impressions on the neck. This is indicative of Late Woodland cultures.

3.1.5 Trench 10

This trench was located 72 meters west of Pioneer Boulevard and ran approximately parallel to it. The south end of the trench was 27.33 meters from a snowfence running along and parallel to Water Avenue, while the north end was 15.50 meters from the same fence. The length of the trench was 11.83 meters.

A layer of construction fill extended from the surface to 93 cm below surface. This consisted of highly disturbed sandy clays and gravel containing historic artifacts (e.g., bottle glass, machine-cut nails, and plastic debris). This fill layer was underlain by a layer (93-108 cm) of relatively undisturbed grey sandy clay containing no artifacts. At 108 cm, a very thin cultural horizon appeared. Although extending only from 108 to 110 cm, it contained a relatively large quantity of fish and mammal bone and several sherds of prehistoric ceramic, likely Late Woodland. An apparent hearth at the same level had no artifacts associated with it.

Beneath this cultural horizon, a layer of convoluted greyish-brown clay extended from 110 to 144 cm. From 144 to 160 cm, greyish-brown silt was found, and from 160 to 184 cm, more greyish clay. All of these clay layers were culturally sterile. At 184 cm, a very faint organic horizon appeared. No more than 2 mm thick at its greatest extent, this level was archaeologically sterile. From 184 to 208 cm, greyish-brown silt was encountered. Grey clay occurred at 208 cm and extended to 316 cm. It was interrupted by three very faint relict soil horizons at 218, 248 and 316 cm respectively. From 316 to 334 cm, the soil was very sandy. A final layer of grey clay extended from 334 cm to the base of the excavation at 347 cm.

Recoveries were primarily faunal. Most fish remains are catfish (Ictalurus sp.) and the majority of the mammal bone is bovid (Bison, etc.). Ceramic sherds recovered were undiagnostic: fabric-impressed or obliterated fabric-impressed body sherds with no appreciable decoration. The single rimsherd recovered was similarly undecorated. Lithic recoveries consisted of a small flake of jasper-taconite, a small quartzite flake, a larger quartzite decortification flake, and a second decortification flake of limestone.

3.1.6 Trench 11

Trench 11 was located 84.81 meters west of Pioneer Boulevard and 12.10 meters west of an existing red survey marker. This marker, 72.71 meters west of Pioneer Boulevard, was left on site as a datum. The trench itself was 22.36 meters long and ran parallel to Pioneer Boulevard. The north end of the trench was 12.50 meters south of the snowfence running along Water Avenue.

Due to the length of this trench, four profiles were taken. The stratigraphy proved to be relatively uniform along the entire

length of the trench. The following description, derived from the southernmost profile, applies throughout.

Construction fill, consisting of highly disturbed sandy clay and gravel containing historic debris, extended from the surface to 85 cm below surface. From 85 to 86 cm, a thin, sterile organic horizon appeared, underlain by grey silt. At 95 cm, a second sterile organic horizon, 4 cm thick, appeared. This horizon is tentatively associated with a Late Woodland occupation. Beneath the two A horizons, sterile grey silt continued to 110 cm. From 110 cm to base (122 cm), the stratigraphy was highly disturbed and appeared to be the relict 'plow zone' associated with the Hudson's Bay Company Experimental Farm. The plow zone thinned from the south to the north and dipped toward the middle of the trench (i.e., was highest at the north and south ends).

In order to examine lower strata, the trench was deepened to 164 cm, at the northern end. The plow zone, at this end of the trench, extended from 99 to 119 cm, and was underlain by brownish grey, clayey silt. This silt layer was interrupted by a thin (1 cm) relict soil lens at 131 cm. No cultural material was associated with the lower soil.

With the exception of historic debris (three pieces of glass and a stoneware sherd) found in the construction fill, all artifacts were recovered from the plow zone. No artifacts were found in the upper A horizons. Most recoveries were faunal; primarily bones of catfish (Ictalurus sp.). A large amount of mammal bone, primarily Bovidae, was also found. Several ceramic sherds were recovered, including one large, undecorated rimsherd, two lipsherds, one necksherd, and several body sherds. All were undecorated and fabric-impressed.

Lithic recoveries consisted of a large limestone chitho, showing evidence of use as a hide preparation tool, and several flakes.

These were primarily of quartzite, but smaller numbers of Selkirk and Swan River chert flakes were found. A small amount of charcoal was also collected.

3.1.7 Trench 12

Trench 12 was excavated in two parts. The southeast corner of Trench 12a was located 14.28 meters west of Trench 11 and 0.5 meters north of the south right-of-way, placing it 99.09 meters west of Pioneer Boulevard. The trench was 3.90 meters long and ran roughly parallel to Pioneer Boulevard. Trench 12b was a disjunct continuation of Trench 12a. The southwest corner of the trench is 16.77 meters north of the southwest corner of Trench 12a. Trench 12b was 4.23 meters long, with the same linear orientation.

3.1.7.1 Trench 12a

Gravel and clay construction fill extended from the ground surface to 74 cm below surface (Figure 3). A layer of greyish black clay extended from 74 to 87 cm, underlain by a layer of brown silt extending to 96 cm. Apart from historic debris in the fill, these levels were all culturally sterile. Beneath the brown silt layer, a thin layer of darker brown silt (96 to 98 cm) was underlain by an artifact-rich cultural horizons at 98 to 103 cm. This horizon contained large amounts of fish bone, as well as three small sherds of Pre-Contact ceramic vessels. From 103 to 108 cm, dark brown silty clay was encountered. This changed slightly to dark brown clayey silt from 108 to 125 cm. A thick layer of dark brown silt extended from 125 to 175 cm, broken by very faint relict soil horizons at 129 and 140 cm.

At 175 cm, a second cultural horizon was observed. The deposit contained large mammal bones and ceramic sherds. This horizon was very thin, and appeared to be single-component in nature.

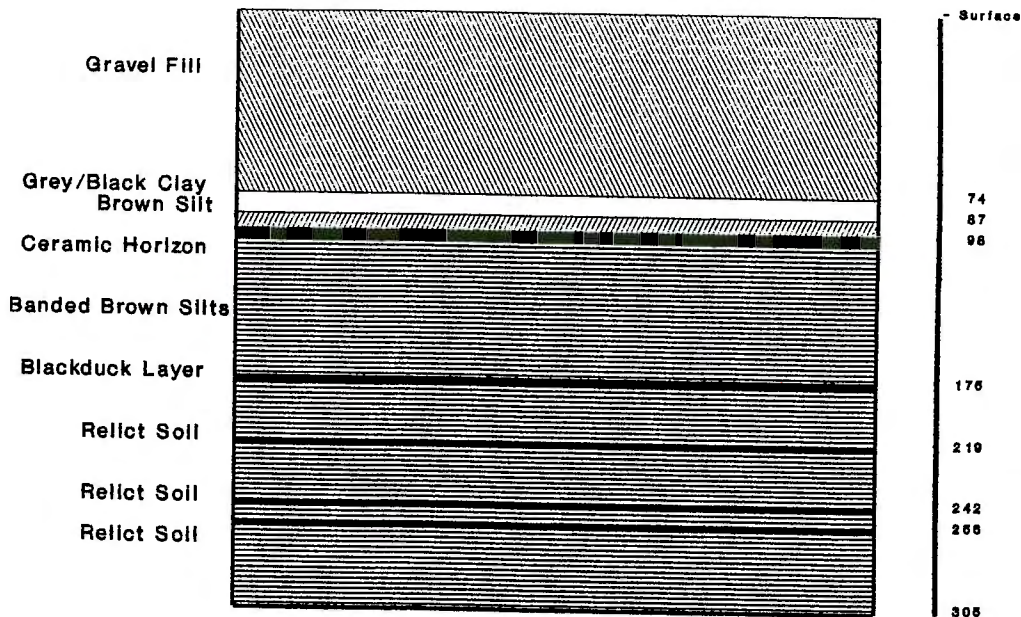


Figure 3: Generalized Profile of Trench 12a.

Banded brown silts and silty clays then extended from 176 cm to the base of the excavation at 305 cm, temporarily interrupted by three horizons. The first horizon was at 219 cm, where a thin, uniform layer of charcoal containing burned roots appeared, likely the result of a localized brush fire. At 242 and 256 cm, thin relict soil horizons were encountered. Neither the burn layer nor the two soil horizons contained any artifacts.

The upper fill layer contained historic artifacts. The curated specimens consisted of several sherds of grey stoneware, two sheet-cut nails and a black, lathe-turned, wooden object, possibly a furniture spindle. All other artifacts were recovered from the cultural horizons (98-103 cm; 175-176 cm).

In the upper horizon, large amounts of fish bone were recovered. The majority of this bone was identified as catfish (*Ictalurus* sp.). Small amounts of mammal bone were present. Some could be identified to Bovidae, but most was unidentifiable due to

fragmentation. One grey chert flake was present. Four ceramic sherds were recovered, including two pieces of daub.

The lower horizon yielded 61 ceramic sherds. These appeared to be from a single vessel which had a diagnostic Cord-Wrapped Object Impressed rim. The vessel was identified as Blackduck, based upon the distinctive decorative features. The temporal period is estimated at A.D. 750 - 1000. Eight fragments of large mammal long bone were associated with the cultural horizon.

3.1.7.2 Trench 12b

The stratigraphy in Trench 12b varied somewhat from that in 12a. Apart from historic debris in the construction fill extending to 77 cm, the trench yielded few artifacts. Beneath the fill, light brown silts extended from 77 to 106 cm, broken by thin relict soil horizons at 77, 81, and 90 cm. These soils were 0.5, 1.0, and 2.0 cm thick respectively. At 106 to 126 cm, a plow zone was observed; likely a continuation of the stratum identified in Trench 11 to the east. From 126 to 143 cm, brown silts appeared once more, underlain by a thin band of reddish clay (143 to 146 cm), brown silts (146 to 181 cm), and grey clay (181 to 189 cm). Brown silty clay extended to base at 225 cm.

Artifact recoveries were minimal: a fabric-impressed body sherd and eight faunal specimens from large mammal.

3.1.8 Trench 13

Trench 13 was situated approximately 15 meters west of Trench 12 and 115.71 meters west of Pioneer Boulevard. The southeast corner of the trench was 0.63 meters north of a survey stake marking the south right-of-way. The trench was 11.95 meters long.

Construction fill, consisting of mottled gravel and clays, extended from the present ground surface to 102 cm. An underlying layer of dark grey clay from 102 to 124 cm may also have been fill. A substantial relict soil horizon, devoid of artifacts, appeared from 124 to 130 cm. This horizon was underlain by grey clayey silts from 130 to 136 cm. A second organic horizon appeared at 136 to 139 cm. Grey clayey silts extended to base at 147 cm. Both relict soil zones appeared to be archaeologically sterile.

3.1.9 Trench 14

The southwest corner of Trench 14 was located 131.37 meters west of Pioneer Boulevard. The trench, 5.0 meters in length, was excavated to a depth of 227 cm.

Highly-mottled, diesel-soaked clay construction fill extended from ground surface to 106 cm. Beneath this, a second layer of possible fill, consisting of dark brown clays, extended to 123 cm. An apparently undisturbed layer of brown silt was uncovered from 123 to 138 cm, underlain by a very diffuse organic or "A" horizon from 138 to 141 cm. Beneath this, alternating bands of grey clay and brown silt extended from 141 cm to base at 227 cm. No artifacts were recovered from Trench 14.

3.2 SUMMARY

The right-of-way is demarcated in Figures 2 and 4. A portion of the area is occupied by the remnants of Freight Shed #1. The exact location of the concrete footings of the structure have not been determined, except for Trenches 6, 7 and 8. These structural elements would delimit the northern extent of the mitigation zone of the cultural horizons. Abstracting from Figure 4, an area of 1125 m² would require mitigative action.

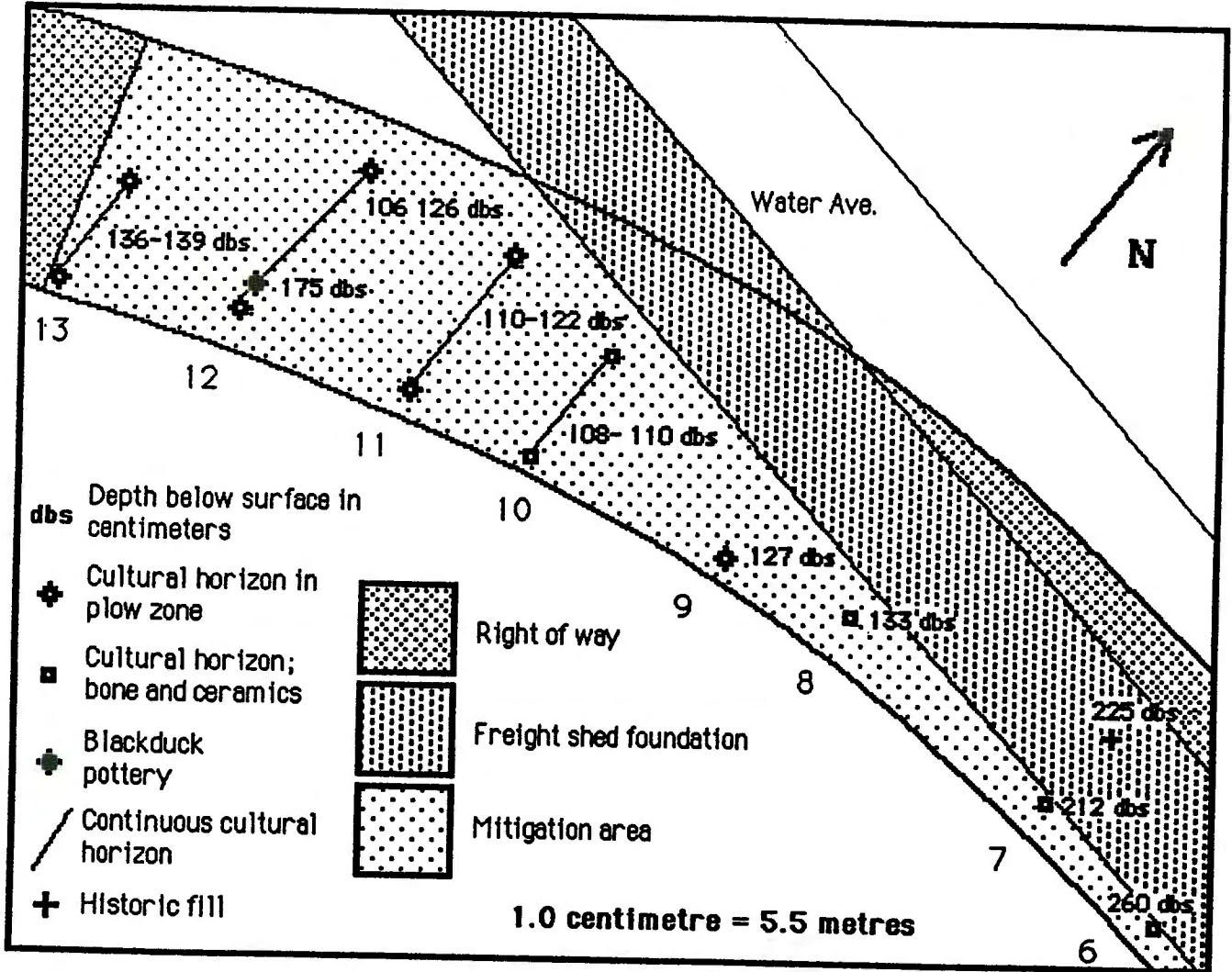


Figure 4: Data Concerning the St. Mary Assessment Trenches

The cultural deposits in Trench 6 and Trench 7 are considerably deeper than the other locations (Figure 3). Also, the Blackduck horizon in Trench 12a is below the upper cultural horizon which occurs across the right-of-way.

The upper cultural horizon occupies approximately 1000 m², between Trench 8 and Trench 13. This horizon appears to be continuous and contains ceramic sherds, lithic artifacts and considerable quantities of faunal remains (Table 1). The frequency of artifacts within the cultural layer can be assessed from the table, as the lengths of the trenches are provided. It must be noted that total recovery of all faunal remains was not undertaken. Only the larger and better preserved elements were retrieved. Thus, the frequency of the faunal recoveries, under mitigative procedures, would be greater than indicated by the following table.

Trench	Length	Historic	Ceramic	Lithic	Faunal	Other	Total
6	6.2 m	-	2	1	125	-	128
7a	3.9 m	21	-	-	-	-	21
7b	2.5 m	-	-	-	2	-	2
8	3.7 m	-	17	6	480	-	503
9	4.4 m	1	6	5	53	-	65
10	11.8 m	-	13	4	174	-	191
11	22.4 m	5	28	7	443	5	488
12a	3.9 m	9	4	1	41	2	57
"	"	Blackduck	61	-	8	-	69
12b	4.2 m	-	1	-	8	-	9
13	12.0 m	-	-	-	-	-	-
14	5.0 m	-	-	-	-	-	-
Totals		36	132	24	1334	7	1533

Table 1: Archaeological Recoveries

The recoveries, presented in Table 1, indicate that the archaeological deposits range from relatively sparse to dense. The trenches were 60 cm wide and the artifact concentrations can be calculated by dividing the quantity of recoveries by the length times 0.6. Trench 8 yielded the highest concentration (226 artifacts/square meter. Other units produced lesser values (Trench 9 - 24; Trench 10 - 27; Trench 11 - 36; Trench 12 - 14).

It must be noted that the quantities of faunal remains are less than would be recovered during a mitigative operation, as 100% retrieval is not effected during an impact assessment. With appropriate screening techniques, the quantities of faunal remains and small lithic artifacts will be greater.

Detailed analysis of the artifact recoveries from this assessment was not undertaken. It would be more appropriate to analyze the material in conjunction with the recoveries from the projected mitigative project. Thus, the artifacts can be interpreted in context.

4.0 RECOMMENDATIONS

It is recommended that the continuous upper cultural horizon be considered for mitigative action, utilizing some format which entails public participation. The exact mechanism and method of implementation should be determined within a frame of reference developed by Historic Resources Branch. The appropriate area lies between Trench 8 and Trench 13 and occupies approximately 1000 m².

It is recommended that the mitigative actions for the deeper cultural deposits located in Trench 6 and Trench 7 be conducted by professional archaeologists, perhaps in conjunction with a construction monitoring program for the other components of the Provencher Bridge/Road Extensions project.

It is recommended that the mitigative actions for the Blackduck horizon (Trench 12a) be undertaken as a component of the mitigation of the upper horizon. However, this operation should take place after the removal of the upper horizon and would probably entail the utilization of heavy equipment to prepare the location. Due to the depth of the deposits (175 cm) and the need for safety precautions, it is suggested that this component be undertaken by professional archaeologists.

It is recommended that all recovered artifacts be analyzed as a complete assemblage. This would include the recoveries from the 1989 assessment, the material from this investigation (Appendix C) and the recoveries from the mitigative operations.

5.0 BIBLIOGRAPHY

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APPENDIX A

REQUISITE PERMITS

CITY OF WINNIPEG
OPERATIONS DIVISION
SERVICES PERMIT

18656

District 1

Street/Avenue No. The Forks
Legal Description: Lot _____ Block _____ Plan _____

- Single family residence
- Two family semi-detached
- Multiple family
- Commercial
- Industrial
- Demolition/removal
- Addition/alteration
- Other

Details Trenching & Seal
Testing for
Archaeological Testing

Applicant Quaternary Consultants Contractor
Address 130 Fort St Stel Other
Phone WPG, MB R3C 1C7

WATER SERVICE

Type of Service	Size and Type	Account No.	Fee
Domestic—Single Meter	_____	_____	\$ _____
Domestic—Multiple Meter (standard Drawing) (application to be signed by owner)	_____	_____	\$ _____
Domestic—Single meter multiple users	_____	_____	\$ _____
Separate sprinkler service (fire)*	_____	_____	\$ _____
Combined domestic and fire service, industrial, etc. (drawings)*	_____	_____	\$ _____
Booster pump installation (drawings)*	_____	_____	\$ _____
Hydrant rental (per unit per month)*	_____	_____	\$ _____

*A set of drawings showing interconnections, cross-connections, back-flow devices, etc., must accompany application.

Inspector Permit Only

SEWER SERVICE

Type of Service	Size and Type	Account No.	Fee
Waste Water Sewer	_____	_____	\$ _____
Land Drainage Sewer	_____	_____	\$ _____
Combined Sewer	_____	_____	\$ _____
Holiday & Weekend inspection	_____	_____	\$ _____

A set of drawings must accompany application

TOTAL FEE \$ N/C

Re: Indemnity Clause for Service Application and Services Permit

I undertake to observe and perform the provisions of all Dominion or Provincial statutes or regulations, and the applicable by-law or by-laws, schemes and regulations or orders and plans continued in force pursuant to Part IX of The City of Winnipeg Act affecting said land; and all specifications or instructions issued by the duly authorized officers of the City in respect of the work incidental to the subject matter of this application and to indemnify the City against all losses, costs, charges or damages caused by or arising out of anything done pursuant to any permit issued under this application.

I AGREE to comply with all By-laws, requirements and Special Conditions set out herein:

Installer [Signature] DATE May 24/90
Designated Officer [Signature] DATE [Signature]

CUSTOMER COPY



Heritage Permit No. A20-90

FORM 11

PURSUANT to Section/~~Subsection~~ 53 of *The Heritage Resources Act*:

Name: Quaternary Consultants Ltd.
Address: 130 Fort Street
Winnipeg, Manitoba
R3C 1C7

(hereinafter referred to as "the Permittee"),

is hereby granted permission to:

carry out testing by means of a backhoe of the proposed route of St. Mary Avenue from the east side of the highline to Pioneer Boulevard at The Forks in the City of Winnipeg in order to ascertain the presence or absence of heritage resources and to delimit as much as possible the extent of the cultural deposit identified during a heritage resource impact assessment conducted by the permittee in 1988;

during the period:

May 14 to June 15, 1990


This permit is issued subject to the following conditions:

- (1) That the information provided in the application for this permit dated the 9th day of May 1990, is true in substance and in fact;
- (2) That the Permittee shall comply with all the provisions of *The Heritage Resources Act* and any regulations or orders thereunder;
- (3) That the Permittee shall provide to the Minister a written report or reports with respect to the Permittee's activities pursuant to this permit, the form and content of which shall be satisfactory to the Minister and which shall be provided on the following dates:
March 31, 1991
- (4) That this permit is not transferable;
- (5) This permit may be revoked by the Minister where, in the opinion of the Minister, there has been a breach of any of the terms or conditions herein or of any provision of *The Heritage Resources Act* or any regulations thereunder;

(6) Special Conditions:

- a) The Permittee will apprise the Historic Resources Branch of all proposed activities and will notify the Historic Resources Branch as soon as possible about the occurrence and extent of heritage resources in the area under study.
- b) In the event that human remains are encountered, all activity in the immediate area will cease and the special procedures relative to the treatment of human remains located at The Forks will be implemented forthwith.
- c) The Permittee must obtain permission from any land owner, lessee or regulatory authority, as applicable, concerning access to the subject property.
- d) Neither the Government of Manitoba nor the party issuing this permit will be liable for any damages resulting from any activities carried out pursuant to this permit, and the Permittee specifically agrees, in consideration for receiving this permit, to indemnify and hold harmless the Minister and the Government of Manitoba, the Minister and any employees and officials of the Government, against any and all liens, demands, loss, liability, cost, damage and expense including, without limitation, reasonable legal fees, which the Government, Minister or any employee or official of the Government may suffer or incur by reason of any of the activities to or related to this permit.

Dated at the City of Winnipeg, in Manitoba, this 15th day of May 1990.



Minister of Culture, Heritage and Recreation

APPENDIX B
SITE GRID PROVENIENCES

PROVENIENCES OF EXCAVATION UNITS
 BASED UPON THE FORKS SURVEY GRID

UNIT	SOUTHERN PROVENIENCE	NORTHERN PROVENIENCE
Trench 6	1633.8N/1291.4W	1638.8N/1289.5W
Trench 7a	1639.0N/1304.2W	1643.0N/1303.0W
Trench 7b	1647.8N/1304.2W	1652.0N/1300.3W
Trench 8	1643.5N/1325.8W	1650.2N/1324.0W
Trench 9	1646.5N/1337.0W	1650.0N/1336.5W
Trench 10	1647.2N/1354.0W	1658.2N/1352.2W
Trench 11	1646.8N/1366.0W	1665.5N/1362.2W
Trench 12a	1643.2N/1380.5W	1648.5N/1380.0W
Trench 12b	1660.8N/1378.5W	1664.5N/1377.7W
Trench 13	1639.7N/1395.8W	1649.8N/1394.0W
Trench 14	1636.0N/1410.8W	1642.8N/1413.3W

APPENDIX C
ARTIFACT CATALOGUE

SPECIMEN CATALOGUE RECORD

Site: D1Lq-33/90B / THE FORKS Area: RED RIVER
 Donor: _____ Acc. No.: _____

Cat. #	Qty	Object Name / Object Type	Material / Cultural Phase	Location on Site	Coll. Date
1	6	VERTEBRA FISH	BONE LATE WOODLAND	TRENCH 11	19900530
2	1	HYOMANDIBULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
3	6	CLEITHRUM ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
4	8	DENTARY ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
5	1	PALATINE ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
6	2	CERATOHYAL ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
7	7	ARTICULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
8	22	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
9	6	DORSAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
10	1	CANINE CANIDAE	TOOTH LATE WOODLAND	TRENCH 11	19900530
11	17	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
12	4	LONG BONE AVES	BONE LATE WOODLAND	TRENCH 11	19900530
13	9	RIB FISH	BONE LATE WOODLAND	TRENCH 11	19900530
14	1	METACARPAL BOVIDAE	BONE LATE WOODLAND	TRENCH 11	19900530
15	2	QUADRATE ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
16	5	SCALE FISH	SCALE LATE WOODLAND	TRENCH 11	19900530
17	254	UNDETERMINED FISH	BONE LATE WOODLAND	TRENCH 11	19900530
18	2	PHALANX BOVIDAE	BONE LATE WOODLAND	TRENCH 11	19900530
19	6	LONG BONE MAMMALIA	BONE LATE WOODLAND	TRENCH 11	19900530
20	18	UNDETERMINED MAMMALIA	BONE LATE WOODLAND	TRENCH 11	19900530
21	1	FLAKE	QUARTZITE LATE WOODLAND	TRENCH 11	19900530
22	1	FLAKE	CHERT LATE WOODLAND	TRENCH 11	19900530
23	1	FLAKE	SELKIRK CHERT LATE WOODLAND	TRENCH 11	19900530
24	1	RETOUCHED FLAKE	QUARTZITE LATE WOODLAND	TRENCH 11	19900530
25	1	FLAKE	GRANITE LATE WOODLAND	TRENCH 11	19900530

SPECIMEN CATALOGUE RECORD

Site: D1Lg-33/90B / THE FORKS Area: RED RIVER
 Donor: _____ Acc. No.: _____

Cat. #	Qty	Object Name / Object Type	Material / Cultural Phase	Location on Site	Coll. Date
26	1	FLAKE	SELKIRK CHERT LATE WOODLAND	TRENCH 11	19900530
27	1	RIM SHERD LIP; NECK	EARTHENWARE LATE WOODLAND	TRENCH 11	19900530
28	2	BODY SHERD NECK	EARTHENWARE LATE WOODLAND	TRENCH 11	19900530
29	1	RIM SHERDLET	EARTHENWARE LATE WOODLAND	TRENCH 11	19900530
30	1	RIM SHERD LIP	EARTHENWARE LATE WOODLAND	TRENCH 11	19900530
31	1	RIM SHERD LIP	EARTHENWARE LATE WOODLAND	TRENCH 11	19900530
32	11	BODY SHERD BODY	EARTHENWARE LATE WOODLAND	TRENCH 11	19900530
33	8	BODY SHERDLET BODY	EARTHENWARE LATE WOODLAND	TRENCH 11	19900530
34	3	BODY SHERD BODY	EARTHENWARE LATE WOODLAND	TRENCH 11	19900530
35	28	UNIDENTIFIED ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
36	3	NEUROCRANIUM ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
37	1	DENTARY ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
38	3	VERTEBRA ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
39	2	NEUROCRANIUM ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
40	1	ETHMOID CORNU ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
41	2	CORACOID	BONE LATE WOODLAND	TRENCH 11	19900530
42	3	CORACOID ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
43	2	CLEITHRUM ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
44	2	HYOMANDIBULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
45	1	LATERAL ETHMOID ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
46	1	PREMAXILLA ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
47	1	CLEITHRUM ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
48	1	ARTICULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
49	1	PTEROTIC ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
50	1	METAPTERYGOID ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530

SPECIMEN CATALOGUE RECORD

Site: D1Lg-33/90B / THE FORKS Area: RED RIVER
 Donor: _____ Acc. No.: -

Cat. #	Qty	Object Name / Object Type	Material / Cultural Phase	Location on Site	Coll. Date
51	1	RIB FISH	BONE LATE WOODLAND	TRENCH 11	19900530
52	7	VERTEBRA ICTALURUS	BONE LATE WOODLAND	TRENCH 11	19900530
53	1	CHITHO	LIMESTONE LATE WOODLAND	TRENCH 11	19900530
54	5	CHARCOAL ANGIOSPERMAE	CHARCOAL LATE WOODLAND	TRENCH 11	19900530
55	2	SHERD BOTTLE	GLASS HISTORIC	TRENCH 11	19900530
56	1	SHERD BOTTLE	GLASS HISTORIC	TRENCH 11	19900530
57	1	SHERD CROCK	STONWARE HISTORIC	TRENCH 11	19900530
58	1	UNDETERMINED MAMMALIA	BONE LATE WOODLAND	TRENCH 11	19900530
59	1	NAIL T-HEAD	IRON HISTORIC	TRENCH 11	19900530
60	3	VALVE UNIONIDAE	SHELL LATE WOODLAND	TRENCH 11	19900530
61	37	UNIDENTIFIED ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
62	1	RIB ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
63	2	PARASPHENDID ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
64	1	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
65	2	QUADRATE ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
66	1	DENTARY ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
67	1	DENTARY ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
68	1	VALVE UNIONIDAE	SHELL LATE WOODLAND	TRENCH 6	19900530
69	2	BODY SHERD BODY	EARTHENWARE LATE WOODLAND	TRENCH 6	19900530
70	4	UNDETERMINED MAMMALIA	BONE LATE WOODLAND	TRENCH 6	19900530
71	1	SCAPULA ARTIODACTYLA	BONE LATE WOODLAND	TRENCH 6	19900530
72	1	FLAKE	SELKIRK CHERT LATE WOODLAND	TRENCH 6	19900530
73	1	VERTEBRA FISH	BONE LATE WOODLAND	TRENCH 6	19900530
74	1	MANDIBLE; TOOTH CASTOR CANADENSIS	BONE LATE WOODLAND	TRENCH 6	19900530
75	2	CERATONYAL ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530

SPECIMEN CATALOGUE RECORD

Site: D1Lg-33/90B / THE FORKS Area: RED RIVER
 Donor: _____ Acc. No.: -

Cat. #	Qty	Object Name / Object Type	Material / Cultural Phase	Location on Site	Coll. Date
76	1	HYOMANDIBULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
77	1	LATERAL ETHMOID ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
78	2	ARTICULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
79	1	ANGULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
80	5	ARTICULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
81	3	PALATINE ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
82	1	PTERYGIOPHORE ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
83	1	DENTARY ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
84	1	BRANCHIOSTEGAL ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
85	1	CLEITHRUM ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
86	1	UROHYAL ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
87	2	VERTEBRA ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
88	1	SUPRACLEITHRUM ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
89	35	UNDETERMINED ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
90	1	CLEITHRUM ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
91	2	PALATINE ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
92	1	HYOMANDIBULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
93	3	UNDETERMINED ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
94	7	VERTEBRA ICTALURUS	BONE LATE WOODLAND	TRENCH 6	19900530
95	1	FRONTAL ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
96	3	CLEITHRUM ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
97	1	PARASPHENOID ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
98	2	DENTARY ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
99	3	SCALE	SCALE LATE WOODLAND	TRENCH 10	19900530
100	1	ETHMOID CORNU ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530

SPECIMEN CATALOGUE RECORD

Site: D1Lq-33/90B / THE FORKS Area: RED RIVER
 Donor: _____ Acc. No.: -

Cat. #	Qty	Object Name / Object Type	Material / Cultural Phase	Location on Site	Coll. Date
101	1	PARASPHENDID ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
102	8	BRANCHIOSTEGAL ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
103	1	PREMAXILLA ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
104	1	DENTARY ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
105	2	SUPRACLEITHRUM ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
106	1	CLEITHRUM ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
107	2	CORACOID ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
108	2	HYOMANDIBULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
109	4	LATERAL ETHMOID ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
110	6	VERTEBRA ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
111	2	UNDETERMINED ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
112	1	FLAKE	JASPER TACONITE LATE WOODLAND	TRENCH 10	19900530
113	1	FLAKE	LIMESTONE LATE WOODLAND	TRENCH 10	19900530
114	1	FLAKE	QUARTZITE LATE WOODLAND	TRENCH 10	19900530
115	1	FLAKE	QUARTZITE LATE WOODLAND	TRENCH 10	19900530
116	3	BODY SHERDLET BODY	EARTHENWARE LATE WOODLAND	TRENCH 10	19900530
117	1	BODY SHERD BODY	EARTHENWARE LATE WOODLAND	TRENCH 10	19900530
118	8	BODY SHERD BODY	EARTHENWARE LATE WOODLAND	TRENCH 10	19900530
119	1	RIM SHERD LIP; NECK	EARTHENWARE LATE WOODLAND	TRENCH 10	19900530
120	2	METATARSUS BOVIDAE	BONE LATE WOODLAND	TRENCH 10	19900530
121	1	RIB MAMMALIA	BONE LATE WOODLAND	TRENCH 10	19900530
122	4	UNDETERMINED MAMMALIA	BONE LATE WOODLAND	TRENCH 10	19900530
123	1	CARPUS?/TARSUS? MAMMALIA	BONE LATE WOODLAND	TRENCH 10	19900530
124	1	PHALANX BOVIDAE	BONE LATE WOODLAND	TRENCH 10	19900530
125	108	UNDETERMINED FISH	BONE LATE WOODLAND	TRENCH 10	19900530

SPECIMEN CATALOGUE RECORD

Site: D1Lq-33/90B / THE FORKS Area: RED RIVER
 Donor: _____ Acc. No.: -

Cat. #	Qty	Object Name / Object Type	Material / Cultural Phase	Location on Site	Coll. Date
126	2	VERTEBRA FISH	BONE LATE WOODLAND	TRENCH 10	19900530
127	1	VERTEBRA FISH	BONE LATE WOODLAND	TRENCH 10	19900530
128	3	VERTEBRA FISH	BONE LATE WOODLAND	TRENCH 10	19900530
129	3	UNDETERMINED AVES	BONE LATE WOODLAND	TRENCH 10	19900530
130	2	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
131	2	LONG BONE AVES	BONE LATE WOODLAND	TRENCH 10	19900530
132	2	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
133	1	DORSAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 10	19900530
134	2	FIRE-CRACKED ROCK	GRANITE LATE WOODLAND	TRENCH 8	19900530
135	1	FLAKE	SELKIRK CHERT LATE WOODLAND	TRENCH 8	19900530
136	1	FLAKE	QUARTZITE LATE WOODLAND	TRENCH 8	19900530
137	1	BIFACE	QUARTZITE LATE WOODLAND	TRENCH 8	19900530
138	1	FLAKE	SWAN RIVER CHERT LATE WOODLAND	TRENCH 8	19900530
139	1	RIM SHERD LIP; NECK	EARTHENWARE LATE WOODLAND	TRENCH 8	19900530
140	10	BODY SHERD BODY	EARTHENWARE LATE WOODLAND	TRENCH 8	19900530
141	4	BODY SHERD BODY	EARTHENWARE LATE WOODLAND	TRENCH 8	19900530
142	1	RIM SHERD LIP	EARTHENWARE LATE WOODLAND	TRENCH 8	19900530
143	1	BODY SHERD NECK; SHOULDER	EARTHENWARE LATE WOODLAND	TRENCH 8	19900530
144	1	LONG BONE MAMMALIA	BONE LATE WOODLAND	TRENCH 8	19900530
145	1	RIB MAMMALIA	BONE LATE WOODLAND	TRENCH 8	19900530
146	2	VERTEBRA ICTALURUS	BONE LATE WOODLAND	TRENCH 8	19900530
147	1	NEUROCRANIUM ICTALURUS	BONE LATE WOODLAND	TRENCH 8	19900530
148	9	LONG BONE MAMMALIA	BONE LATE WOODLAND	TRENCH 8	19900530
149	1	OTOLITH FISH	BONE LATE WOODLAND	TRENCH 8	19900530
150	3	ARTICULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 8	19900530

SPECIMEN CATALOGUE RECORD

Site: DILg-33/90B / THE FORKS Area: RED RIVER
 Donor: _____ Acc. No.: -

Cat. #	Qty	Object Name / Object Type	Material / Cultural Phase	Location on Site	Coll. Date
151	5	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 8	19900530
152	13	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 8	19900530
153	1	DORSAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 8	19900530
154	13	SCALE FISH	SCALE LATE WOODLAND	TRENCH 8	19900530
155	377	UNDETERMINED FISH	BONE LATE WOODLAND	TRENCH 8	19900530
156	3	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 8	19900530
157	14	UNDETERMINED MAMMALIA	BONE LATE WOODLAND	TRENCH 8	19900530
158	9	RIB FISH	BONE LATE WOODLAND	TRENCH 8	19900530
159	4	UNDETERMINED MAMMALIA	BONE LATE WOODLAND	TRENCH 8	19900530
160	1	METAPODIAL ARTIODACTYLA	BONE LATE WOODLAND	TRENCH 8	19900530
161	1	CLEITHRUM ICTALURUS	BONE LATE WOODLAND	TRENCH 8	19900530
162	2	QUADRATE ICTALURUS	BONE LATE WOODLAND	TRENCH 8	19900530
163	11	DENTARY ICTALURUS	BONE LATE WOODLAND	TRENCH 8	19900530
164	8	VERTEBRA FISH	BONE LATE WOODLAND	TRENCH 8	19900530
165	1	VERTEBRA ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530
166	20	UNIDENTIFIED FISH	BONE LATE WOODLAND	TRENCH 12A	19900530
167	2	VERTEBRA ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530
168	1	OPERCULUM ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530
169	1	SCALE FISH	SCALE LATE WOODLAND	TRENCH 12A	19900530
170	1	PTERYGOID ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530
171	1	HYOMANDIBULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530
172	1	VERTEBRA FISH	BONE LATE WOODLAND	TRENCH 12A	19900530
173	4	HYOMANDIBULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530
174	1	DENTARY ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530
175	1	DENTARY ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530

SPECIMEN CATALOGUE RECORD

Site: DILq-33/90B / THE FORKS Area: RED RIVER
 Donor: _____ Acc. No.: _____

Cat. #	Qty	Object Name / Object Type	Material / Cultural Phase	Location on Site	Coll. Date
176	1	ANGULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530
177	2	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530
178	1	UNDETERMINED MAMMALIA	BONE LATE WOODLAND	TRENCH 12A	19900530
179	1	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 12A	19900530
180	1	FLAKE	CHERT LATE WOODLAND	TRENCH 12A	19900530
181	2	DAUB	EARTHENWARE LATE WOODLAND	TRENCH 12A	19900530
182	2	BODY SHERD BODY	EARTHENWARE LATE WOODLAND	TRENCH 12A	19900530
183	2	BARK ANGIOSPERMAE	BARK LATE WOODLAND	TRENCH 12A	19900530
184	2	UNDETERMINED MAMMALIA	BONE LATE WOODLAND	TRENCH 12A	19900530
185	2	TIBIA BISON BISON	BONE BLACKDUCK	TRENCH 12A	19900530
186	2	LONG BONE ARTIODACTYLA	BONE BLACKDUCK	TRENCH 12A	19900530
187	2	UNDETERMINED MAMMALIA	BONE BLACKDUCK	TRENCH 12A	19900530
188	1	VERTEBRA ARTIODACTYLA	BONE BLACKDUCK	TRENCH 12A	19900530
189	1	UNDETERMINED ARTIODACTYLA	BONE BLACKDUCK	TRENCH 12A	19900530
190	26	BODY SHERD BODY	EARTHENWARE BLACKDUCK	TRENCH 12A	19900530
191	19	BODY SHERDLET BODY	EARTHENWARE BLACKDUCK	TRENCH 12A	19900530
192	14	BODY SHERD NECK; SHOULDER	EARTHENWARE BLACKDUCK	TRENCH 12A	19900530
193	2	RIM SHERD LIP; NECK	EARTHENWARE BLACKDUCK	TRENCH 12A	19900530
194	1	NAIL SQUARE	IRON HISTORIC	TRENCH 12A	19900530
195	1	SPINDLE	WOOD HISTORIC	TRENCH 12A	19900530
196	1	NAIL	IRON HISTORIC	TRENCH 12A	19900530
197	6	SHERD CROCK	STONWARE HISTORIC	TRENCH 12A	19900530
198	1	UNIDENTIFIED FISH	BONE LATE WOODLAND	TRENCH 9	19900530
199	2	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 9	19900530
200	1	ARTICULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 9	19900530

SPECIMEN CATALOGUE RECORD

Site: D1Lg-33/90B / THE FORKS Area: RED RIVER
 Donor: _____ Acc. No.: -

Cat. #	Qty	Object Name / Object Type	Material / Cultural Phase	Location on Site	Coll. Date
201	1	DORSAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 9	19900530
202	1	PECTORAL SPINE ICTALURUS	BONE LATE WOODLAND	TRENCH 9	19900530
203	4	SCALE FISH	SCALE LATE WOODLAND	TRENCH 9	19900530
204	16	UNDETERMINED FISH	BONE LATE WOODLAND	TRENCH 9	19900530
205	4	UNDETERMINED MAMMALIA	BONE LATE WOODLAND	TRENCH 9	19900530
206	1	UNIDENTIFIED ARTIODACTYLA	BONE LATE WOODLAND	TRENCH 9	19900530
207	1	LONG BONE MAMMALIA	BONE LATE WOODLAND	TRENCH 9	19900530
208	2	TARSUS BOVIDAE	BONE LATE WOODLAND	TRENCH 9	19900530
209	6	UNDETERMINED FISH	BONE LATE WOODLAND	TRENCH 9	19900530
210	2	OPERCULUM ICTALURUS	BONE LATE WOODLAND	TRENCH 9	19900530
211	1	RIM SHERD LIP; NECK	EARTHENWARE LATE WOODLAND	TRENCH 9	19900530
212	5	BODY SHERD BODY	EARTHENWARE LATE WOODLAND	TRENCH 9	19900530
213	2	FLAKE	LIMESTONE LATE WOODLAND	TRENCH 9	19900530
214	1	FLAKE	LAKE OF THE WOODS BLACK CHERT LATE WOODLAND	TRENCH 9	19900530
215	1	FLAKE	SWAN RIVER CHERT LATE WOODLAND	TRENCH 9	19900530
216	1	CORE	SWAN RIVER CHERT LATE WOODLAND	TRENCH 9	19900530
217	11	VALVE UNIONIDAE	SHELL LATE WOODLAND	TRENCH 9	19900530
218	1	SHERD BOTTLE	GLASS HISTORIC	TRENCH 9	19900530
219	2	NAIL	IRON HISTORIC	TRENCH 7A	19900530
220	1	NAIL	IRON HISTORIC	TRENCH 7A	19900530
221	1	FRAGMENT CAN	IRON HISTORIC	TRENCH 7A	19900530
222	2	SHERD CROCK	STONWARE HISTORIC	TRENCH 7A	19900530
223	1	SHERD CROCK	STONWARE HISTORIC	TRENCH 7A	19900530
224	1	SHERD BOWL? / CUP?	PORCELAIN HISTORIC	TRENCH 7A	19900530
225	1	SHERD LID	PORCELAIN HISTORIC	TRENCH 7A	19900530

SPECIMEN CATALOGUE RECORD

Site: D1Lg-33/90B / THE FORKS Area: RED RIVER
 Donor: _____ Acc. No.: -

Cat. #	Qty	Object Name / Object Type	Material / Cultural Phase	Location on Site	Coll. Date
226	1	SHERD BOWL?/ CUP?	PORCELAIN HISTORIC	TRENCH 7A	19900530
227	1	SHERD BOTTLE	GLASS HISTORIC	TRENCH 7A	19900530
228	1	SHERD BOTTLE	GLASS HISTORIC	TRENCH 7A	19900530
229	1	SHERD BOTTLE	GLASS HISTORIC	TRENCH 7A	19900530
230	2	WINDOWPANE	GLASS HISTORIC	TRENCH 7A	19900530
231	1	FEMUR AVES	BONE HISTORIC	TRENCH 7A	19900530
232	1	RADIUS; ULNA ARTIODACTYLA	BONE HISTORIC	TRENCH 7A	19900530
233	2	LONG BONE MAMMALIA	BONE HISTORIC	TRENCH 7A	19900530
234	2	HORN CORE BOVIDAE	BONE HISTORIC	TRENCH 7A	19900530
235	1	CERATOHYAL ICTALURUS	BONE LATE WOODLAND	TRENCH 7B	19900530
236	1	ARTICULAR ICTALURUS	BONE LATE WOODLAND	TRENCH 7B	19900530
237	8	LONG BONE MAMMALIA	BONE LATE WOODLAND	TRENCH 12B	19900530
238	1	BODY SHERDLET BODY	EARTHENWARE LATE WOODLAND	TRENCH 12B	19900530