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Jones 2000
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2734 OLIVE STREET, NW
WASHINGTON, DC 20007
☎ (202) 338-7977/(202) 786-2505
FAX (202) 357-2208

February 23, 2000

Dr. Arthur Bankoff
Chairman for Archaeology
Landmarks Preservation Commission
100 Old Slip
New York, NY 10005

Dear Dr. Bankoff:

Enclosed are the inventories for the three sites I studied: PW077102F; NY 93008; and NYC93032. Each (when appropriate) is broken down into bone; number of bones present; age; sex; comments; and minimum number of individuals (MNI) represented by that bone.

PW077102F

This site was broken down somewhat differently from the others; each bag was noted with a location as well as a bag number. Since these apparently have little context, they were analyzed by bag. Overall, at least two individuals are represented by the remains, and probably many more. None of the bones could be clearly associated with any of the others. The remains are generally in very poor condition. Two elements show evidence of red staining; one shows copper staining. No assessment of ancestry is possible. These remains have little research value, except to add to a teaching collection for fragmentary bone. I suggest that no further analysis is needed.

NY 93008

This site was in nominally better condition than the other two. At least nine adult individuals were present, based on the number of mandibles present; as well as one child between 6 and 10 years of age and another between 11 and 14 years of age. Unfortunately, the level of preservation of the mandible fragments did not allow me to assign age and sex categories to them. However, fairly good preservation of elements of the pelvis did allow some assessments to be made. Based on features of the pelvis, eight of the adults were able to be assessed to some extent. Based on these observations the remains appear to represent: a male between 40 and 45 years of age, a male between 20 and 24 years of age, a male between 18 and 25 years of age, another young adult male; a female between 40 and 45 year of age, a probable female between 35 and 49 years of age, a female between 20 and 34 years of age, and an adult of unknown sex. Unfortunately, while many cranial fragments were present and appeared to be recently broken, very little in the way of facial elements or measurable crania were present. Thus, it is not possible to reliably assess ancestry of these individuals. Morphometric analysis using discriminant functions cannot reliably assign ancestry to

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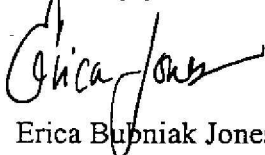
individuals due to the lack of measurable features. It might be possible to reconstruct the crania more completely and attempt morphometric analysis of the crania to give a clearer picture of ancestry. Note that some bones in this collection do articulate and that coloration patterns suggest that at least some of these remains may have originated from primary burials.

NYC93032

The remains from this site were in relatively poor condition. At least 10 adults are represented, as well as an adolescent, a child, and an infant. The adults include: 1 male over 45 years, 1 male over 40 years of age, 1 probable male between 30 and 34 years of age, 1 male between 18 and 24 years of age, 1 female between 35 and 39 years of age, 2 young females, and 2 adults over 35 years of age. No reliable estimate of ancestry can be made, again due to the fragmentary nature of the cranial remains. Again, as with the previous site, the crania could be reconstructed for morphometric analysis if most of the fragments are present.

Please contact me if you have any questions.

Sincerely yours,



Erica Bubniak Jones
Physical Anthropologist

INVENTORY OF HUMAN REMAINS
UTILITY TRENCH CHAMBERS STREET PW077102F
ERICA BUBNIAK JONES
23 FEBRUARY 2000

Bag No.	Location	Bone	Age	Sex	Comments
1	Sidewalk	R tibia shaft	adult	female	
2	Sidewalk West	R proximal ulna	adult	male	
		L tibia	adult	?	
		L proximal femur	adult	?	
		L femur fragments	young adult	?	
		Tibia fragment?	adult	?	
3	Chambers St. South	R proximal radius	adult	?	red staining
		L distal fibula	adult	female	red staining
4	Park North 14'-28'	L rib fragment	adult	?	
		R radius shaft	adult	male?	
5	Sidewalk to Park North	R parietal	15-19	?	
		L femur shaft	adult	?	copper staining; pathological
		R proximal humerus	adult	male	
		R clavicle fragment	young adult	male	
		Middle hand phalanx	adult	?	
6	Sidewalk West	L 1 st metatarsal	adult	?	
7	Sidewalk West	L proximal tibia	young adult	female	

Bag No.	Location	Bone	Age	Sex	Comments
8	Park North Test	R tibia fragment	adult	?	
9	Sidewalk East	L 5 th metatarsal	adult	?	
10	Park North 42'-56'	Femur shaft	adult	female	
12	Chambers St. N	L radius	adult	?	
		L tibia shaft	adult	male?	
13	Chamber St. N	L humerus	adult	male?	
15	Park South 16'-25'	Long bone shaft fragment	?	?	
16	Park 42'-56'	L parietal fragment	adult	?	
	EU1 STR2 LEV1	Tibia fragment?	adult	?	
	EU4 STR1 LEV1	Femur fragment?	adult	?	
		Clavicle fragment	adult	?	
	Sidewalk West	R distal humerus	middle-aged adult	male	
	Water main trench	Long bone shaft fragment	adult	?	
		L distal humerus	adult or late adolescent	?	

INVENTORY OF HUMAN REMAINS
 NY 93008
 ERICA BUBNIAK JONES
 23 FEBRUARY 2000

Bone	No.	Age	Sex	Comments	MNI
Calcanei	3 left; 6 right	1 female; 1 male, 45+; others adults of unknown sex		1 left and 1 right (male) are antimeres, showing arthritic changes	6
Tali	3 left; 2 right; 3 fragmentary	1 male, 45+; 1 young probable female; 1 male 40+; others adult		Two are antimeres; one articulates with one of the calcanei	5
Foot naviculars	1 left, 1 right	adult	?		1
1 st metatarsals	3 left; 5 right	adult	?		5
2 nd metatarsals	3 left; 3 right	adult			3
3 rd metatarsals	5 left; 7 right	adult	?		7
4 th metatarsals	6 left; 4 right	adult	?		3
5 th metatarsals	4 left; 3 right	adult	?		4
				4 other proximal ends of metatarsals are also present	
Proximal foot phalanges, 1 st digit	2 left; 2 right	adult	?	One pair are antimeres with defects on distal articular facets	3
Proximal foot phalanges, digits 2-5	7	adult	?		1
1 st cuneiforms	2 left	adult	?		2
cuboids	1 left; 2 right	adult	?		2

Bone	No.	Age	Sex	Comments	MNI
11 st metacarpals	3 left; 1 right	1 female; others adult of unknown sex		Right metacarpal is of female	4
2 nd metacarpals	5 left; 3 right	adult	?		5
3 rd metacarpals	4 left; 4 right	adult	?		4
4 th metacarpals	2 left; 4 right	adult	?		4
5 th metacarpals	2 left; 3 right	adult	?		3
Middle hand phalanges	19	1 young adolescent; others adult, sex unknown		1 phalanx shows an enlarged articular surface with uneven surface texture, pitting, and lipping, probably as a result of dislocation.	4
Proximal hand phalanges	28	adult	?		4
Hand naviculars	2 left	adult	?		2
Hamates	1 left; 1 right	adult	?		1
Lunate	1 left	adult	?		1
Humeri	13 left fragments	Distal: 3 males; 2 females; others adults of unknown sex			6
	11 right fragments	Distal: 2 males, one probable female; others adults of unknown sex			5
Radii	3 left	1 probable female, 1 male, 1 adult, sex unknown			3
	6 right	3 males; others adults, sex unknown			6
Ulnae	3 left	1 male; 1 female; one middle-aged adult, sex unknown		Also 4 midshaft fragments	3

Bone	No.	Age	Sex	Comments	MNI
	3 right	2 middle-aged males; 1 probable male			3
Ribs	285 fragments	adult	?	No pathology noted	
Atlas	5	1 adult female; 1 adult >50 years; others adults, sex unknown			5
Axis	3	1 adult >50 years; others adults, sex unknown			3
Cervicals	12 bodies	adult	?	6 show osteophytic lipping	3
Thoracics	23 bodies	adult	?	9 show osteophytic lipping; 16 show Schmorl's nodes; T1 and T2 from a young adult show green staining; two other thoracics are wedged	2
Lumbars	10 bodies	adult	?	1 shows osteophytic lipping; 1 shows arthritic changes; 3 show Schmorl's nodes	2
Pubis	1 left	45+	probably male		1
Iliia	4 left	1 male, 40-45; 1 female, 20-34; 1 male, 20-24; 1 female 40-45			4
	5 right	1 adult, 30-34; 1 male, 18-25; 1 adult, sex unknown; 1 probable female, 35-49; 1 male, young adult			5
Ischia	3 left; 3 right	adult	?		3
Clavicles	4 left	1 young female; 1 young probable male; 1 probable male; 1 adult of unknown sex			4
	2 right	1 male, 45+; 1 male, 35+			2
Scapulae	3 fragments	1 adult, 45+; 1 child, 6-10			2

Bone	No.	Age	Sex	Comments	MNI
Femora	7 left heads	4 males, 1 female, others adults of unknown sex			
	10 left proximal segments	1 middle-aged male; 1 middle-aged female; 1 male; others adult, sex unknown			10
	8 left midshaft fragments	adult	?		
	5 left distal segments	1 middle-aged adult, others adult, sex unknown			5
	4 right proximal segments	1 middle-aged female; 1 young female; 1 male; another adult, sex unknown			4
	4 right distal segments	adult	?		4
Tibiae	6 left proximal segments or whole bones	1 young female; 1 adult, 50+; 1 adult, 45+; 1 male; 1 probable female; 1 adult of unknown sex		Young female shows evidence of healed periosteal bone, lateral surface; elderly male has a squatting facet; adult of unknown sex shows deep periosteal striations, with an uneven, bumpy surface appearance; the probable female shows an area of disturbed bone on the posterior aspect, possibly representing a long-healed fracture	6
	2 left distal segments	2 adults	?	One shows well-healed periosteal bone in two areas, probably due to infection	2
	2 proximal right segments	1 middle-aged male; 1 adult, sex unknown		Copper stain on anterior aspect on male bone	2
	5 distal right segments	1 middle-aged male; 1 male; 1 female; others adult, sex unknown		One segment of unknown sex shows new (active) periosteal bone on the anterior crest as well as the medial and lateral aspects, suggesting an active infection at the time of death	5

Bone	No.	Age	Sex	Comments	MNI
Fibulae	26 fragments	adult	?		
Patellae	1 left	adult	female		1
	1 fragment	adult	?		
Maxillae/Mandibles	Maxillae & Mandible A	young adult	male	Slight dental wear; notch on right central incisor, occlusal surface; antemortem loss; caries; linear enamel hypoplasia	1
	Mandible B	middle adult	male	second premolars probably missing congenitally; some arthritic lipping of condyles; severe overbite; linear enamel hypoplasia	1
	Mandible C	adult	male	Linear enamel hypoplasia	1
	Mandible D	adult	?	Copper stain on right ramus; antemortem loss; caries; abscessing	1
	Mandible E	adult	?	Linear enamel hypoplasia; M3 missing congenitally	1
	Mandible F	adult	female	Antemortem loss; caries; hypoplasia	1
	Mandible G	adult	probably female	Antemortem loss; abscessing	1
	Mandible H	adult	probably female	Antemortem loss; caries	1
	Maxilla I	adult		Hypoplasia	1
Cranial fragments				Possibly complete fragments from above 9 individuals	

Bone	No.	Age	Sex	Comments	MNI
Upper orbits	6 left	1 young female; 1 child, 10-15; 2 females; 1 male, 17-25; 1 adult, sex unknown		young female shows healed cribra orbitalia	6
	6 right	1 young female; 2 males; 2 females; 1 male, 17-25			6
Zygomatrics	2 left; 3 right	adult	?		3
Temporal/Mastoid	3 left	2 adults, sex unknown; 1 subadult,			3
	3 right	one male; 1 adult, sex unknown; 1 probable subadult			3
	3 other petrous portions	?	?		

INVENTORY OF HUMAN REMAINS

NYC 93032

ERICA BUBNIAK JONES

23 FEBRUARY 2000

Bone	No.	Age	Sex	Comments	MNI
Distal hand phalanges	4	3 adult; 1 child			2
Middle hand phalanges	22	adult	?	Arthritic porosity on proximal end of one phalanx	3
Proximal hand phalanges	25 complete; 16 fragmentary	adult	?	Red staining present on the proximal articular surface of one phalanx, palmar surface	5
Distal foot phalanges, 1 st digit	3	young adult	?		
Proximal foot phalanges of 1 st digit	3 left, 4 right	adult	?	Circular defect on proximal articular surface of one right phalanx	4
Proximal foot phalanges of 2 nd -5 th digits	17	adult	?	Arthritic lipping on proximal end of one phalanx	3
1 st metacarpals	6	adult	?		3
2 nd metacarpals	5 left, 3 right	adult	?	Arthritic lipping on articular surfaces of two left phalanges	5
3 rd metacarpals	4 left; 3 right	adult	?		4
4 th metacarpals	1 left; 1 right	adult	?		1
5 th metacarpals	5 left; 5 right	adult	?		5
Fragmentary metacarpals	8	adult	?	Red staining on one metacarpal	
hand naviculars	3 left	2 male; 1 female			3
Capitate	1 left; 1 right	adult	?		1
Lunate	1 left	adult	?		1

Bone	No.	Age	Sex	Comments	MNI
Hamate	1 left	adult	?		1
Distal foot phalanges	5	adult	?		1
1 st metatarsals	1 left, 3 right; 4 side?	adult	?	Cupped distal articular surface on medial side of one right metatarsal; bunion?	5
2 nd metatarsals	6 left; 6 right	adult	?		6
3 rd metatarsals	5 left	adult	?		5
4 th metatarsals	2 left; 2 right	adult	?	One right is unusually curved inferiorly below the neck and shows a patch of active periosteal bone formation 12.5 x 8.6 mm in size on the lateral side. Fracture?	2
5 th metatarsals	2 left; 3 right	adult	?		3
Calcanei	3 left; 3 right	adult	?		3
Tali	2 left; 4 right	adult	?	One right talus shows what appear to be healed fractures of the two inferior facets	4
Foot naviculars	1 left; 4 right	adult	?		4
Cuboid	1 left	adult	?		1
1 st cuneiforms	2 left	1 male; 1 female			2
2 nd cuneiform	1 left	adult	?		1
3 rd cuneiform	2 left	adult	?		2
Ribs	177 fragments	adult; infant		Four ribs (1 left; 3 right) show lesions consistent with healed/active infection (e.g., tuberculosis, pneumonia); two ribs (1 left; 1 right) show evidence of healed fractures; one rib shows copper staining on its visceral surface.	
Scapulae	3 left; 3 right (frags)	adult	?		3

Bone	No.	Age	Sex	Comments	MNI
Ischia	3 left	2 young adult females; 1 male			3
	5 right	1 male, 45+; others sex unknown			5
Iliac	6 left	1 male, 45-49; 1 possible male 30-34; 2 adults 35+, sex unknown; 1 female 35-39; 1 young adult, sex unknown			6
	3 right and fragments of 2 others	2 young adults; 1 infant (1-2 yr)			5
Pubes	3 left	1 female, 25-35; 1 male 30-40; 1 male 18-24			3
	2 right	1 male, 20-24; 1 male 30-40			2
Atlas	2 left & 1 right fragments	adult	?	Right fragment does not match with either left	3
Axis	1	20-35	?		1
Cervicals 3-7	14 bodies; 8 arches	adult	?	One C7 (prob male) has a copper stain on the anterior-inferior border, left of midline	3
Thoracics	31 bodies	1 adolescent; 1 child; adults, sex unknown		9 bodies show Schmorl's nodes (herniations probably due to stress on back); 6 show osteophyte formation	4
Lumbar	22 bodies	1 adolescent; adults, sex unknown		6 bodies show Schmorl's nodes; 3 show osteophyte formation	6
Sacrum	1 fragment	young adult	?		1
Cranial vault fragments	995 g	1 child; adults		?	
Superior orbits	7 left	2 females; 1 male		one individual shows evidence of healed cribra orbitalia	7
	3 right	1 child; 1 male; another adult, sex unknown		the child shows evidence of possible cribra orbitalia	3

Bone	No.	Age	Sex	Comments	MNI
Zygomatics	3 left	1 male, 45+; 1 female or late adolescent; 1 other adult		Copper staining is visible on the lateral edge of bone of older male	7
	4 right	3 adults of unknown sex; 1 female or late adolescent		No matches with lefts	
Temporals	2 left mastoids	adult	?		2
	3 right mastoids	1 male 35-45; 2 probable females			3
	3 left petrous portions	adult	?		3
	3 left temporal fossae		?		3
	4 right temporal fossae	adult	2 male; 2 female		4
Clavicles	4 left	1 probable female; 1 male, 40+, 1 probable young male; 1 other probable male		one male shows evidence of probable healed fracture	6
	5 right	1 probable young male; 1 male 30-40; 2 middle-aged adults of unknown sex; 1 male, 40+			
Sterna	2 gladioli; 1 manubrium	1 adolescent or young female; one adult male			2
Humeri	12 right segments	Proximal: 2 adult males; 1 adolescent male; 1 male, 45+; 1 male 30-35; 1 probable female; 1 male, 35+, 1 young probable female, 1 other female		Also present were fragments of distal ends of 2 females of unknown age, a male, 35+, and an adult of unknown sex. This latter adult showed a copper stain.	9

Bone	No.	Age	Sex	Comments	MNI
	13 left segments	Proximal: 1 adult male; 2 middle-aged adults, sex unknown, 1 probable young female; 1 male, 35+; 1 young adult, sex unknown; 1 young adult male		Also present were a midshaft fragment of a young adult, the distal ends of a middle-aged adult and a middle-aged male, and 3 unsideable head fragments	7
Ulnae	18 left segments	Proximal: 3 middle-aged males; 1 middle-aged adult, sex unknown, 1 adult male; 1 probable female; 1 adult of unknown sex.		Also present were 9 midshaft fragments, the distal end of a male and another adult of unknown sex.	7
	12 right segments	Proximal: 1 male, 45+; 1 adult of unknown sex, 1 middle-aged adult of unknown sex; 2 males; 1 female		Six midshaft fragments also present	6
Radii	9 left segments	Proximal: 2 middle-aged males; 1 male, 1 young adult, sex unknown, another adult, sex unknown		Also 3 midshaft fragments, probably originating from a young female, a male, and another adult.	6
	9 right segments	Proximal: 1 young male; 3 adults of unknown sex. Distal: 1 male, 40+; 1 young female		Also 3 midshaft fragments of a probable female, a male, and an adult of unknown sex	6
Femora	4 left segments	1 male, 35+; 3 adults of unknown sex		Male shaft has what appears to be an iron deposit on the medial aspect	4
	10 right segments	2 males, 35+; 1 adolescent; 1 male; 2 probable females; 1 probable male; two other adults of unknown sex		The probable male shows plaque-like periosteal bone formation on the medial aspect, suggesting an active infection at the time of death. One shaft fragment of unknown sex shows green staining.	9
	5 heads of unknown side	1 male, 1 female			

Bone	No.	Age	Sex	Comments	MNI
	shaft of unknown side	child, 6-10 years		Shows active periosteal bone formation	1
Tibiae	9 left segments	1 probable male		The probable male has an adherent iron deposit; one shaft fragment shows two areas of iron deposits; another shows active new bone formation on the anterior and lateral surfaces, suggesting an active infection at the time of death; another shows a well-healed periosteal bone deposit on the posterior aspect	8
	9 right segments	1 young adult; 5 other adults of unknown sex		The young adult shows fine plaque-like bone on the entire lateral surface; another fragment shows a squatting facet; another shows active periosteal plaque-like bone formation on the posterior aspect; another shows an area of massive bone deposition on the medial and lateral surfaces, which appears to be healed. This likely represents a healed fracture or an ossified hematoma. A radiograph would be necessary to attempt to diagnose the lesion.	7
Fibulae	12 segments	Adult			
Patellae	1 left; 1 right	1 adult, 45+; 1 other adult		Not antimeres.	2
Maxillae	A	adult	?	1 tooth lost antemortem, with associated abscess; no caries; linear enamel hypoplasia	1
	B	adult	?	Linear enamel hypoplasia	1
	C	adult	?		1
	D	adult	?	Antemortem loss, with associated abscess	1
	E	adult	?	Linear enamel hypoplasia	1
Mandibles	F	40+	male	Antemortem loss, congenitally missing M3; caries; abscess associated with damaged tooth	1

Bone	No.	Age	Sex	Comments	MNI
	G	40+	male	Antemortem loss, with associated abscess, caries	1
	H	adult	?	Antemortem loss	1
	I	adult	male	Antemortem loss	1
	J	adult	male	Antemortem loss	1
	2 right gonial regions	adult	male		2
	3 right and 4 left condyles	2 adult males, 1 infant; others adult, sex unknown			4