

### General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point

### Risk of Flooding from Surface Water

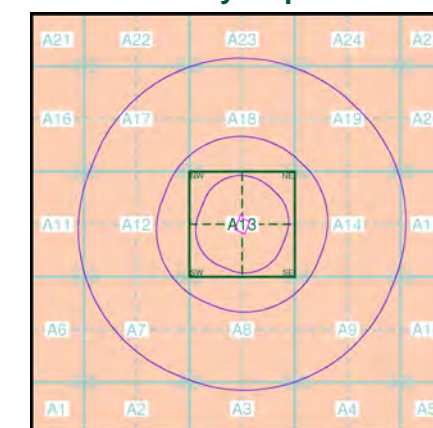
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

### Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

### EANRW Suitability Map - Slice A

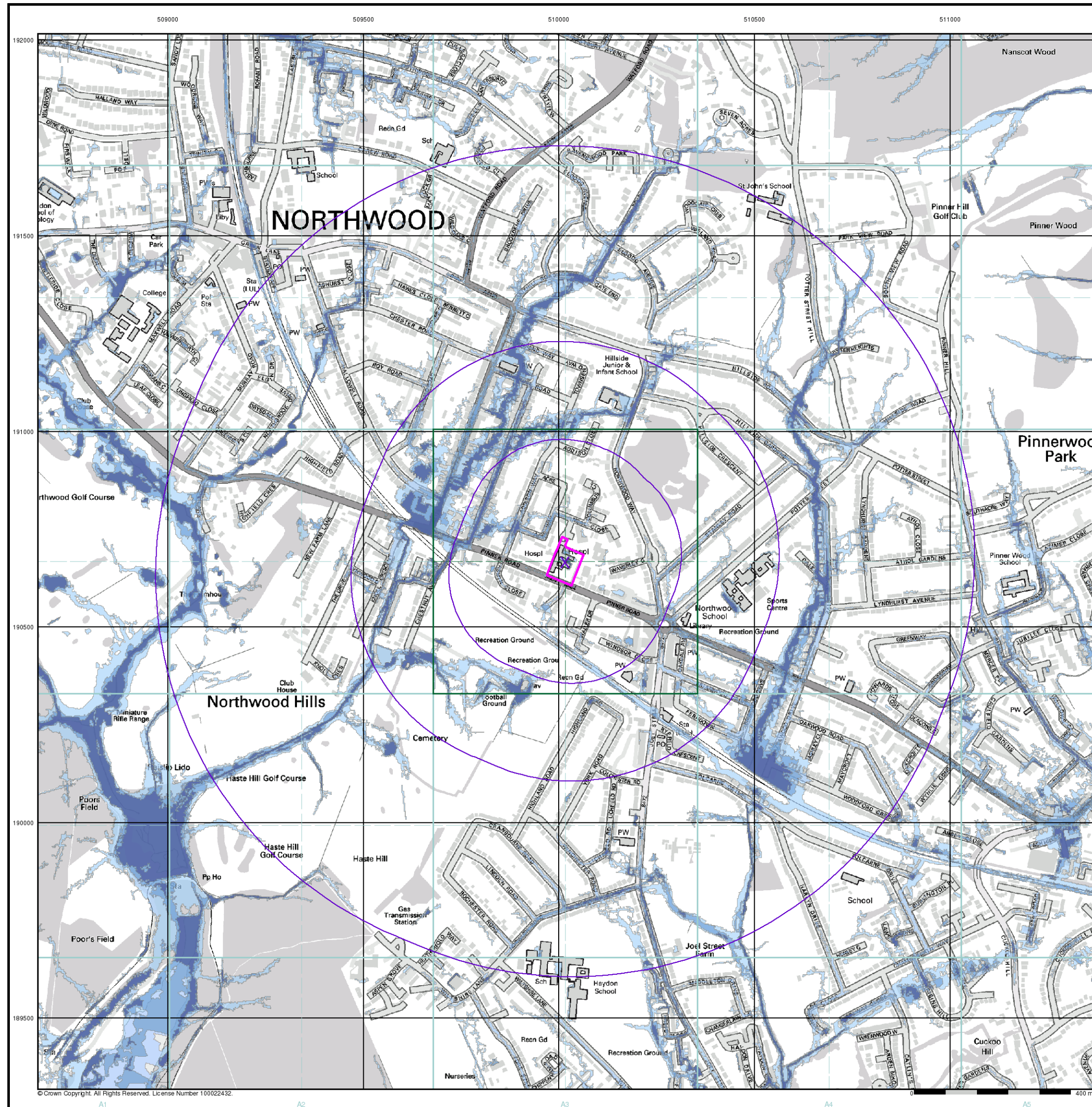


### Order Details

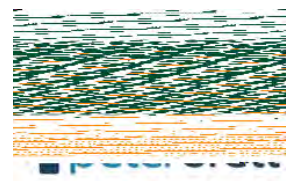
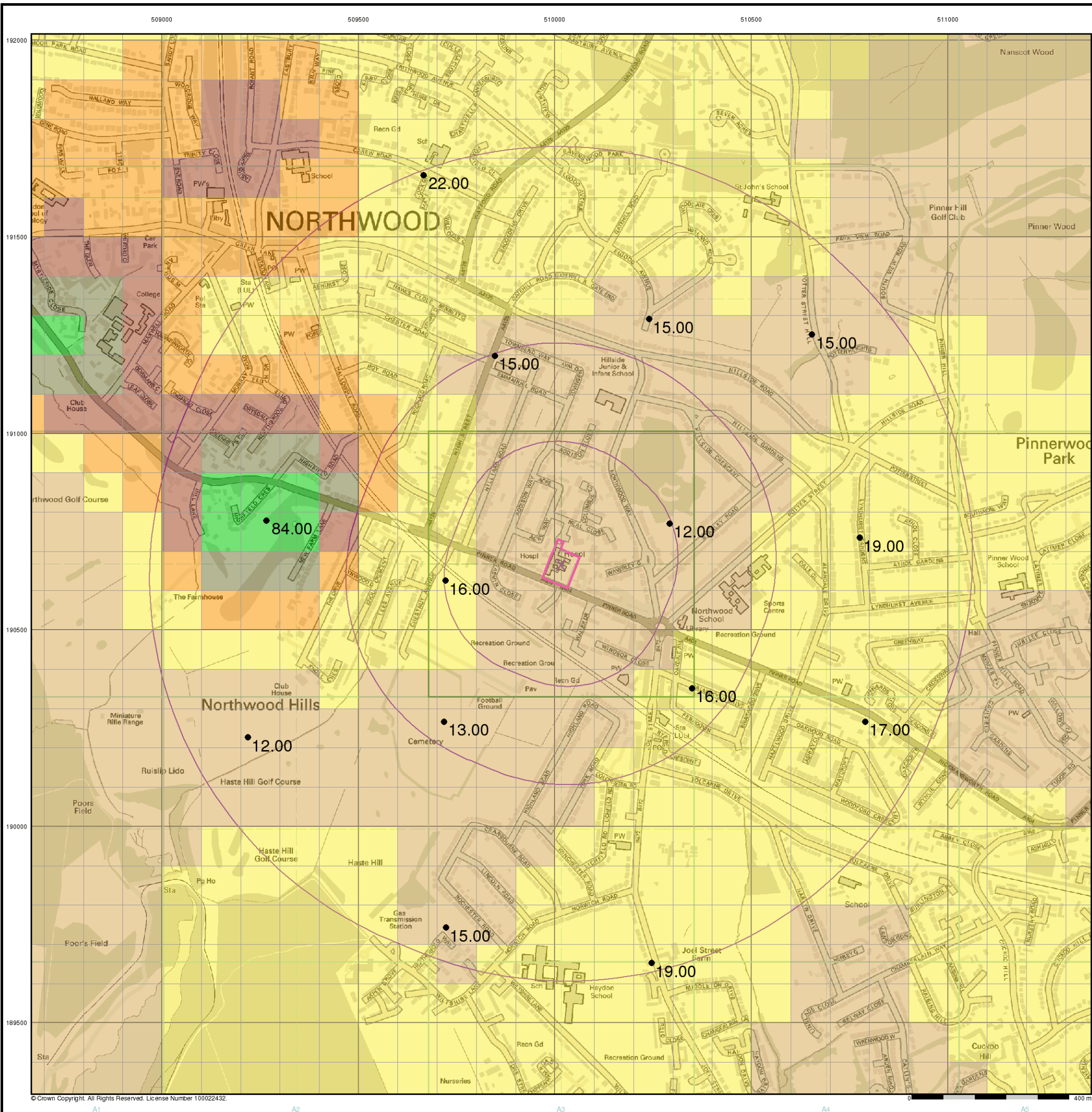
Order Number: 71541451\_1\_1  
 Customer Ref: 35554/3501  
 National Grid Reference: 510020, 190670  
 Slice: A  
 Site Area (Ha): 0.62  
 Search Buffer (m): 1000

### Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE







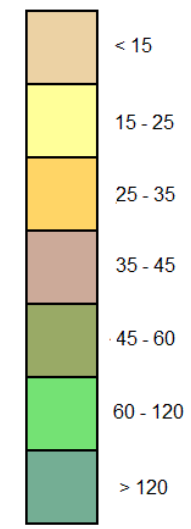
### General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

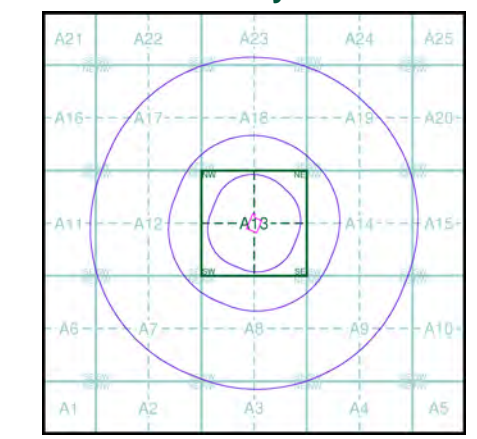
### Urban Soil Chemistry Arsenic

● BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Arsenic Concentrations mg/kg



### Urban Soil Chemistry Arsenic - Slice A



### Order Details

Order Details: 71541451\_1\_1  
 Customer Ref: 35554/3501  
 National Grid Reference: 510020, 190670  
 Slice: A  
 Site Area (Ha): 0.62  
 Search Buffer (m): 1000

### Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE

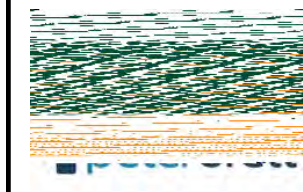
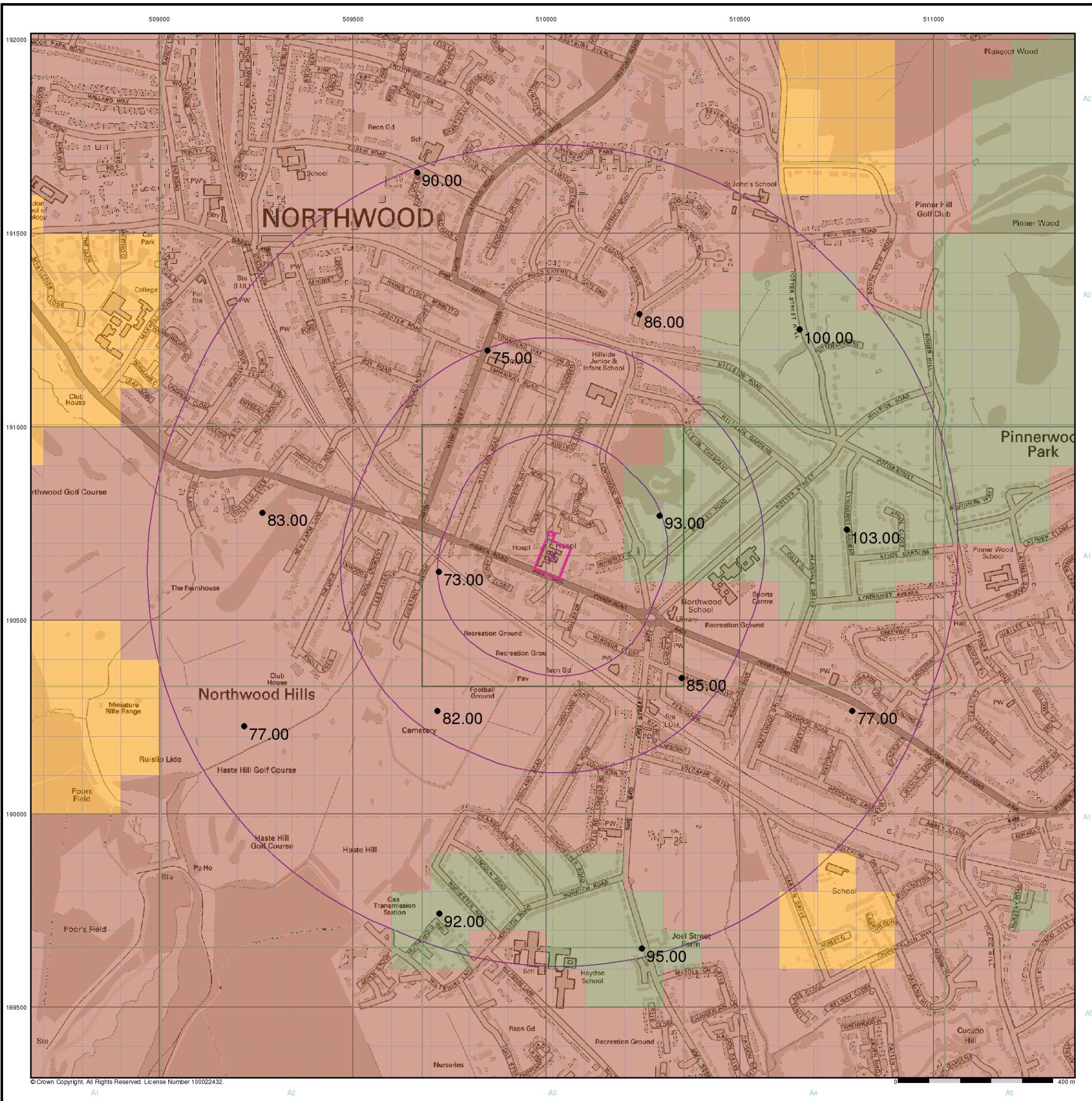


Tel: 0844 844 9952  
 Fax: 0844 844 9951  
 Web: www.envirocheck.co.uk









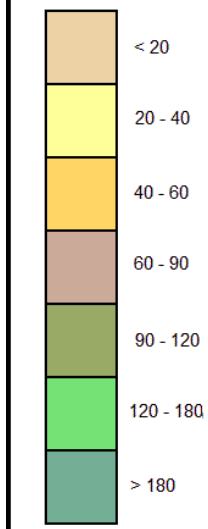
**General**

Specified Site    
 Specified Buffer(s)    
 Bearing Reference Point

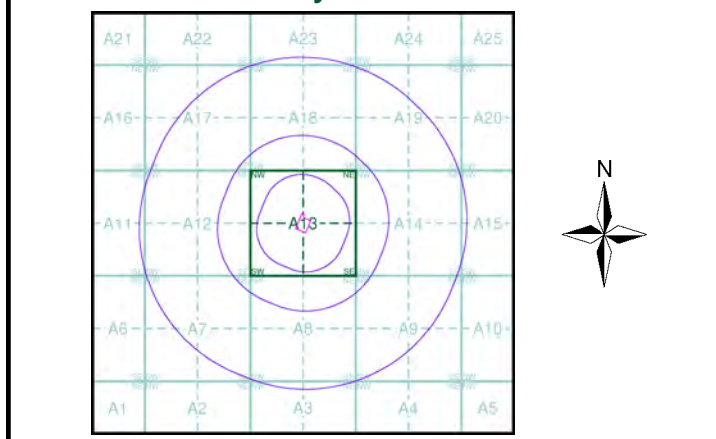
**Urban Soil Chemistry Chromium**

BGS Urban Soil Chemistry Measured Concentration Values (mg/kg)

Chromium Concentrations mg/kg



**Urban Soil Chemistry Chromium - Slice A**



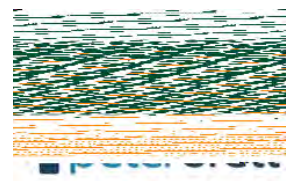
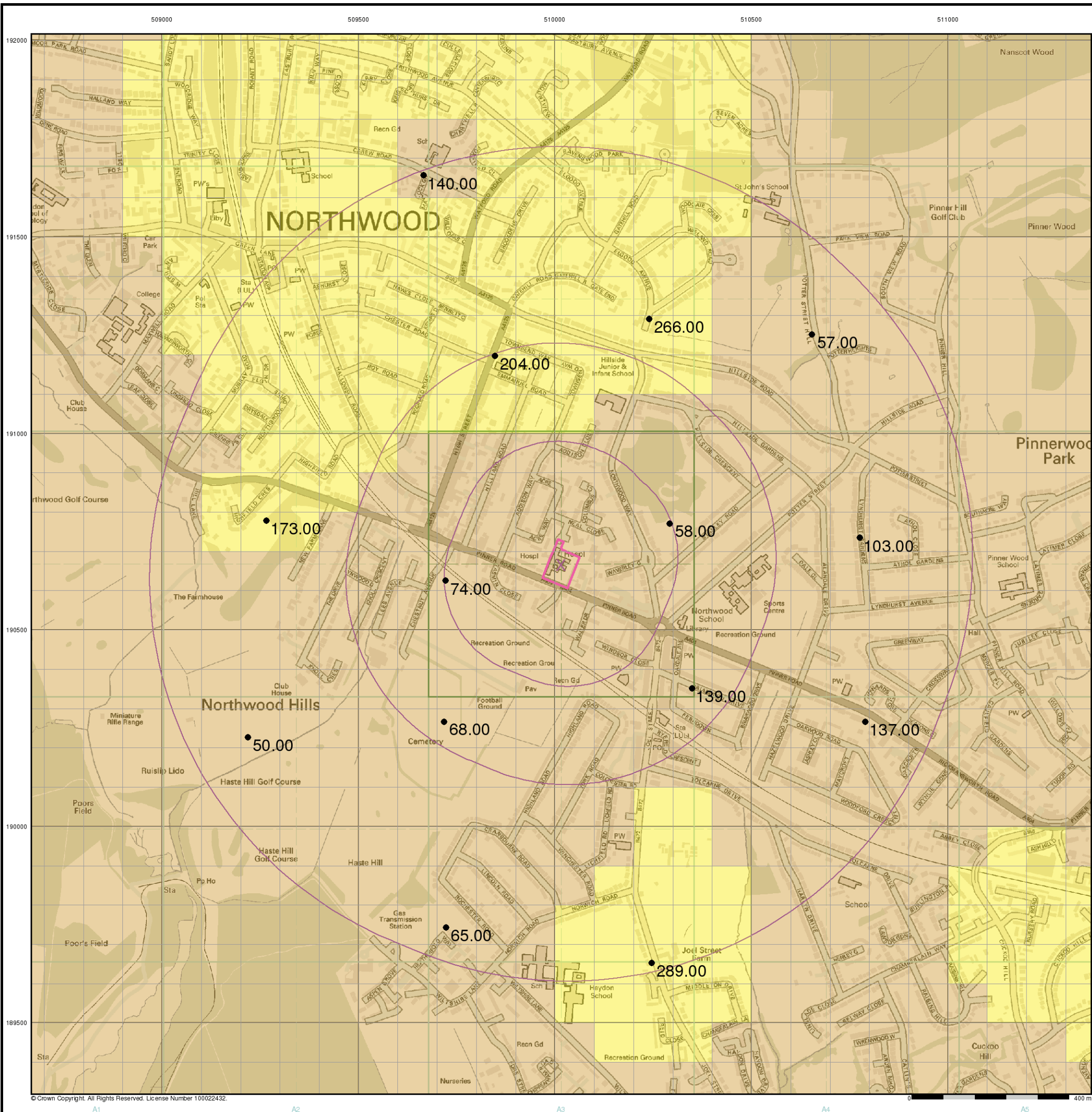
**Order Details**

Order Details: 71541451\_1\_1  
 Customer Ref: 35554/3501  
 National Grid Reference: 510020, 190670  
 Slice: A  
 Site Area (Ha): 0.62  
 Search Buffer (m): 1000

**Site Details**

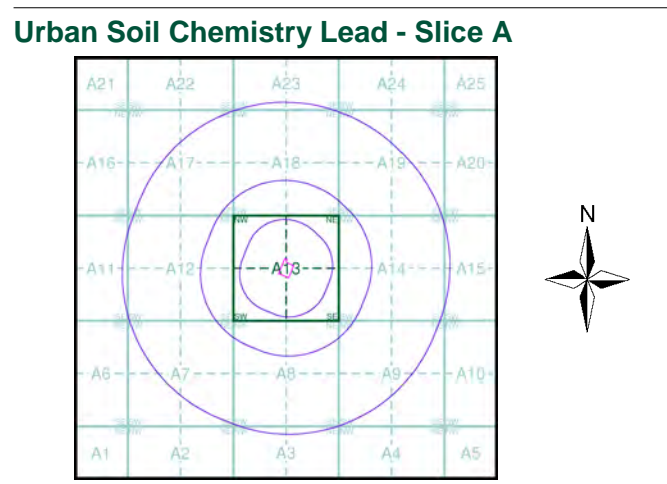
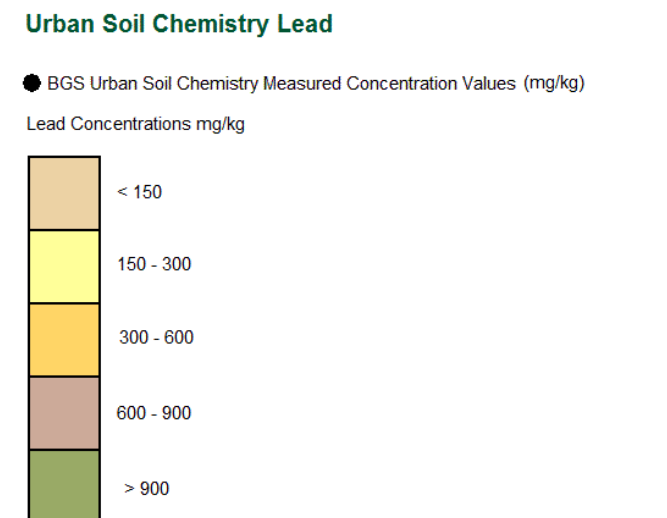
Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE





**General**

Specified Site Specified Buffer(s) Bearing Reference Point



**Order Details**

Order Details: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 1000

**Site Details**

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE

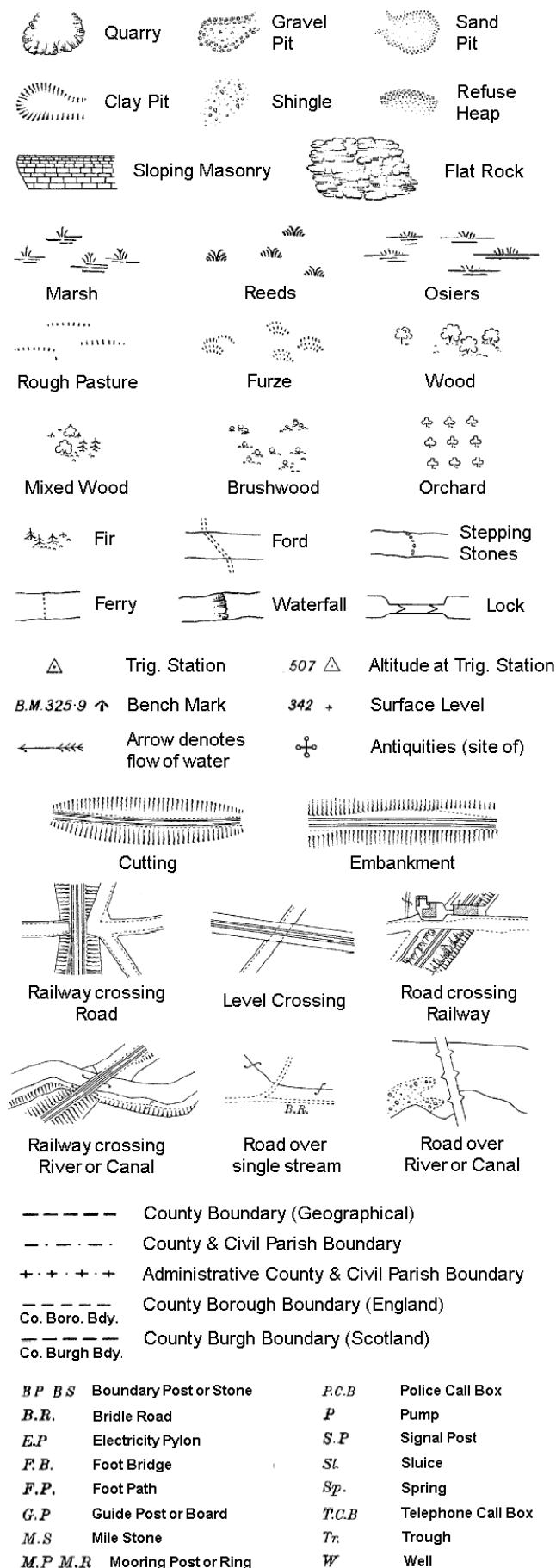






# Historical Mapping Legends

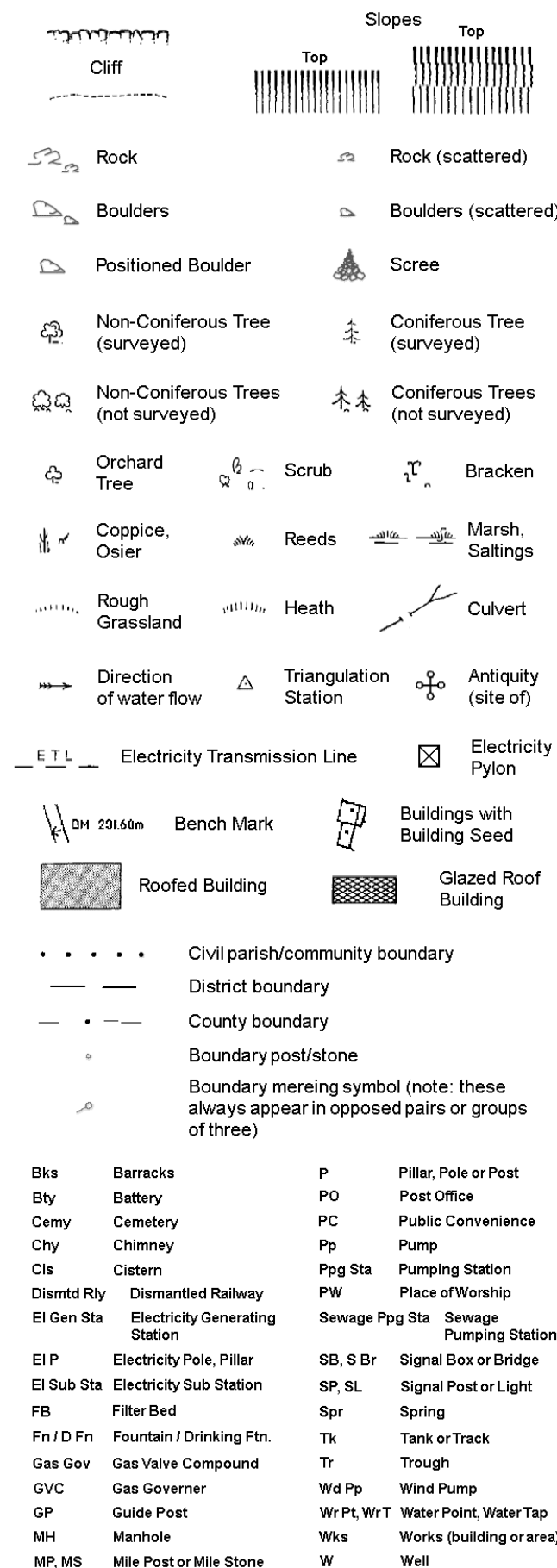
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



## Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250



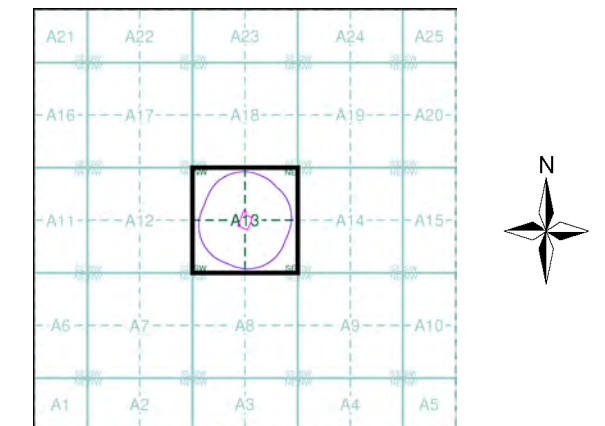
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Middlesex	1:2,500	1865	2
Middlesex	1:2,500	1896	3
Middlesex	1:2,500	1913	4
Middlesex	1:2,500	1932	5
Ordnance Survey Plan	1:1,250	1959 - 1965	6
Ordnance Survey Plan	1:2,500	1960 - 1966	7
Additional SIMs	1:2,500	1960	8
Ordnance Survey Plan	1:1,250	1970 - 1979	9
Supply of Unpublished Survey Information	1:1,250	1974	10
Additional SIMs	1:1,250	1978 - 1988	11
Ordnance Survey Plan	1:1,250	1986	12
Large-Scale National Grid Data	1:1,250	1992	13
Large-Scale National Grid Data	1:1,250	1993	14

## Historical Map - Segment A13



## Order Details

Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

## Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk





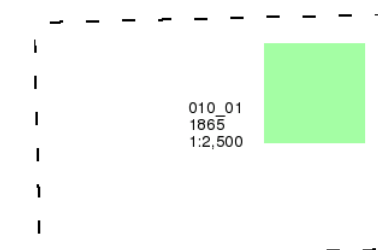
Middlesex

Published 1865

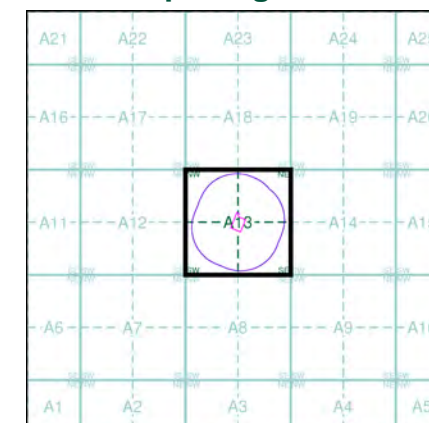
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

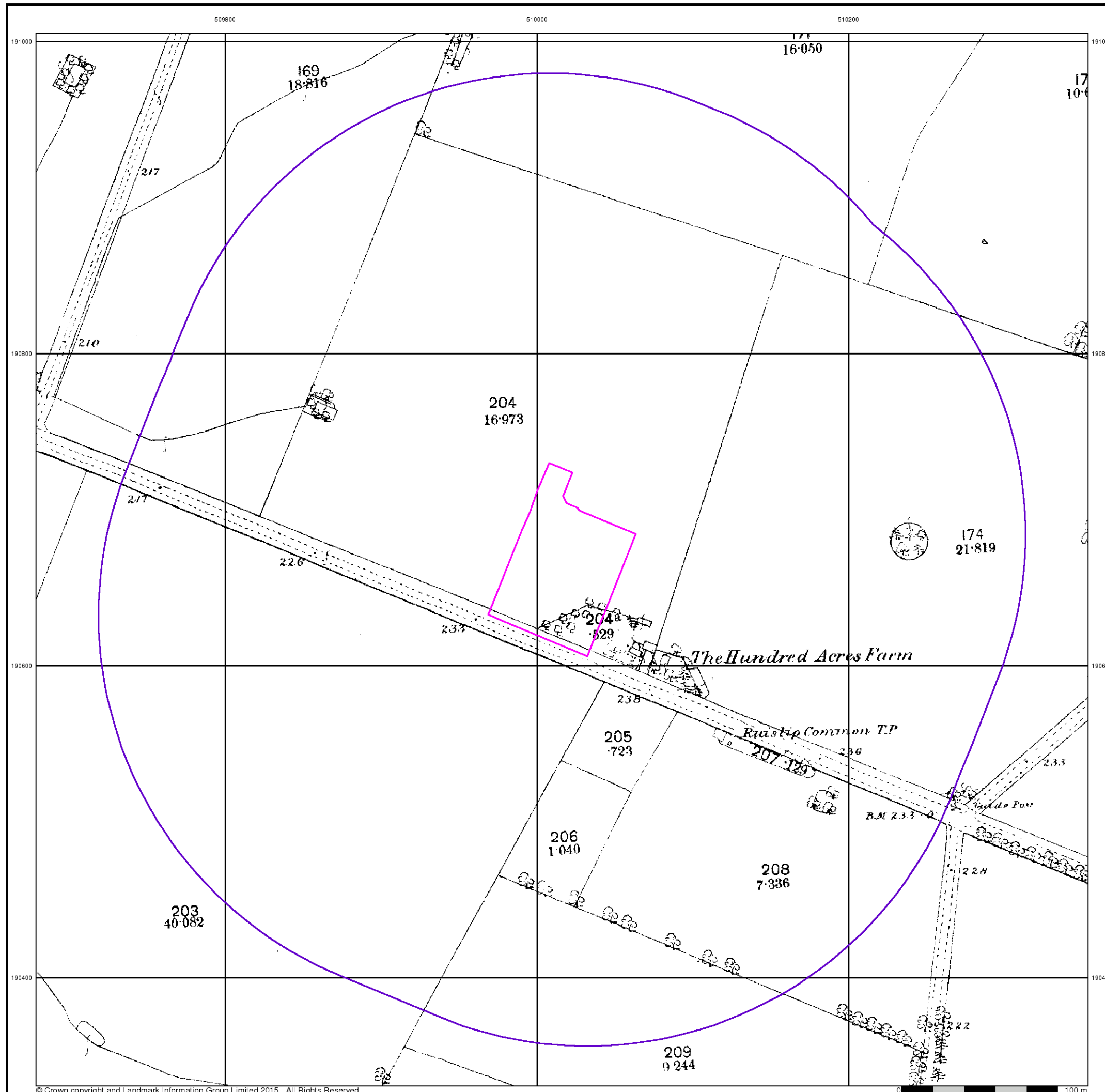
Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

### Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE



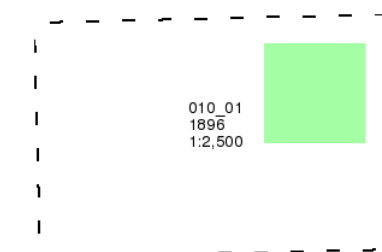
Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk



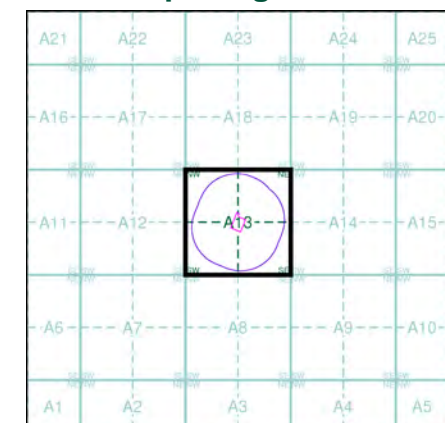


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

**Map Name(s) and Date(s)**



**Historical Map - Segment A13**

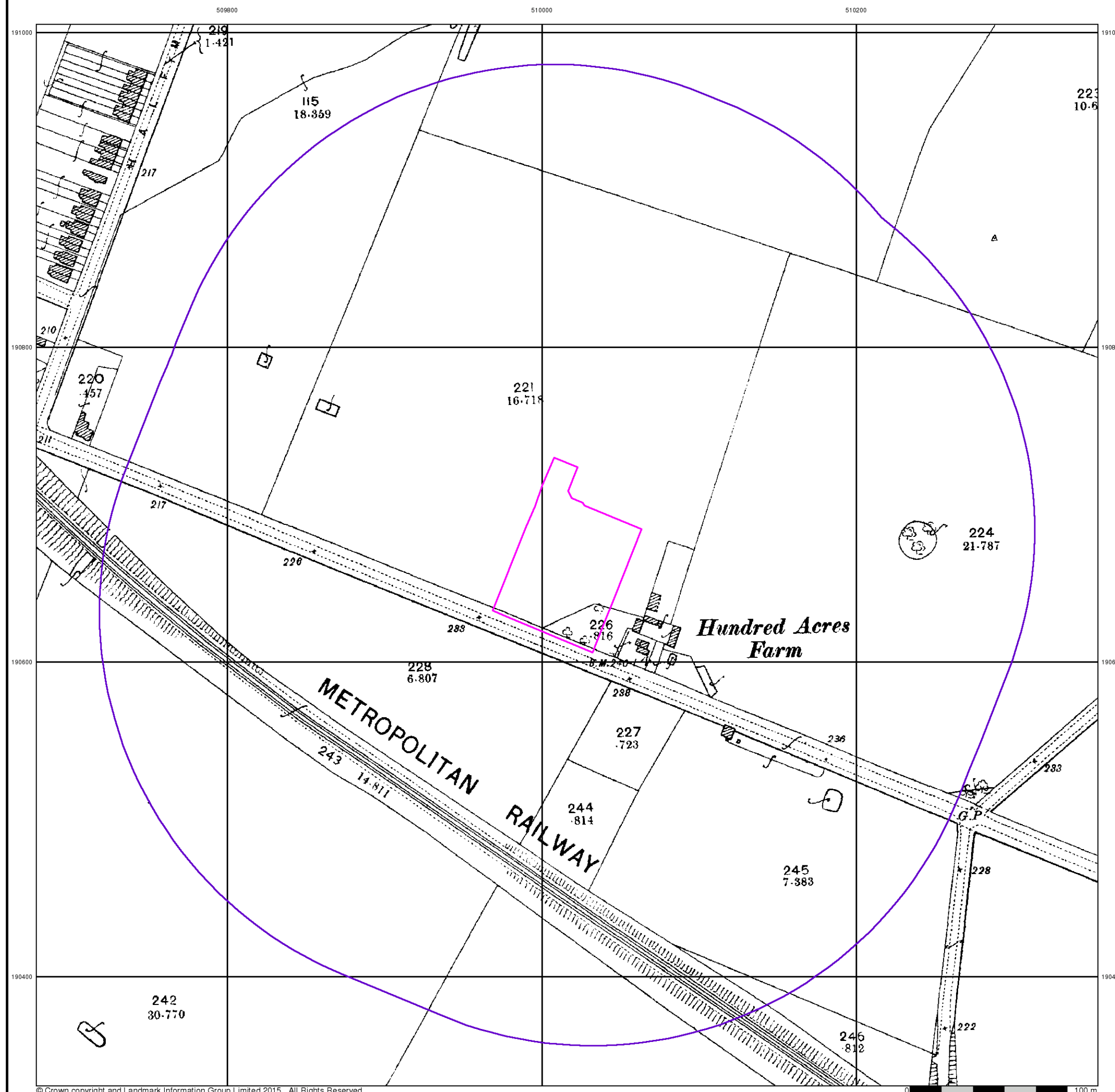


**Order Details**

Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

**Site Details**

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE







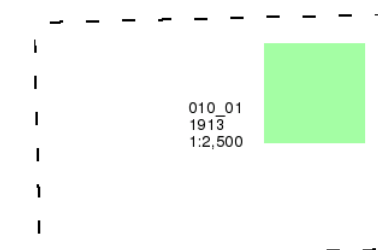
Middlesex

Published 1913

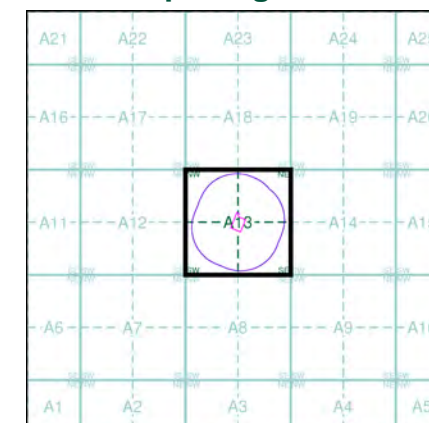
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)



### Historical Map - Segment A13



### Order Details

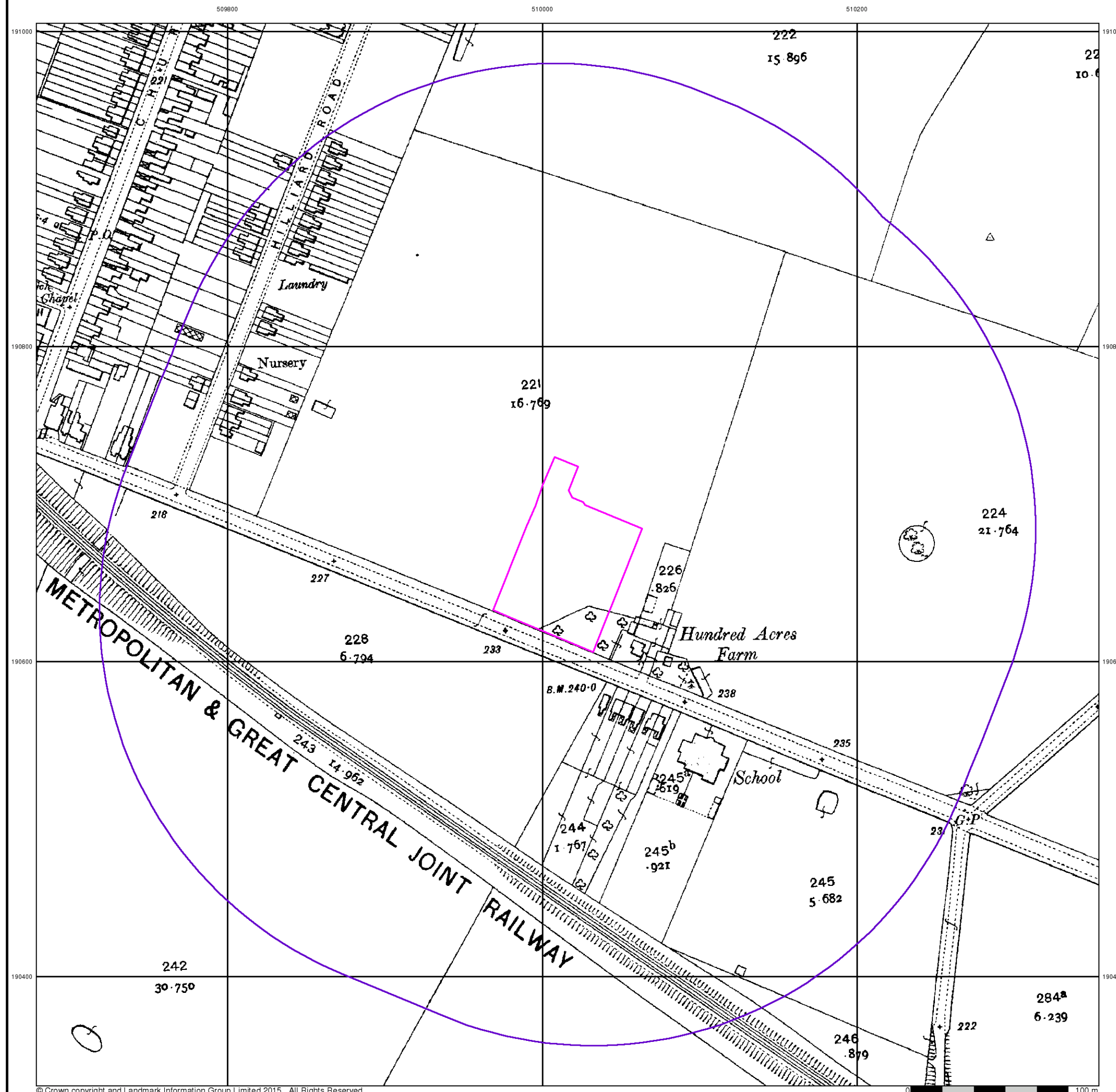
Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

### Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk















## Ordnance Survey Plan

Published 1960 - 1966

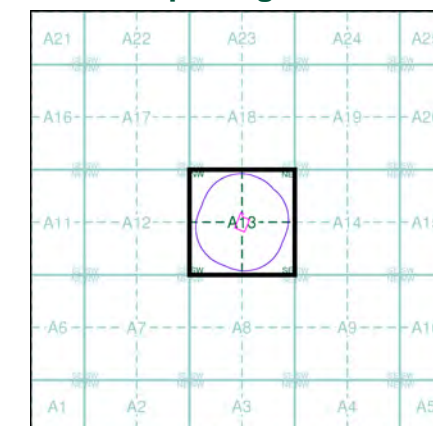
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

TQ0991 1960 12,500	TQ1091 1966 12,500
TQ0990 1960 12,500	TQ1090 1966 12,500

### Historical Map - Segment A13



### Order Details

Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

### Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk







## Additional SIMs

**Published 1960**

**Source map scale - 1:2,500**

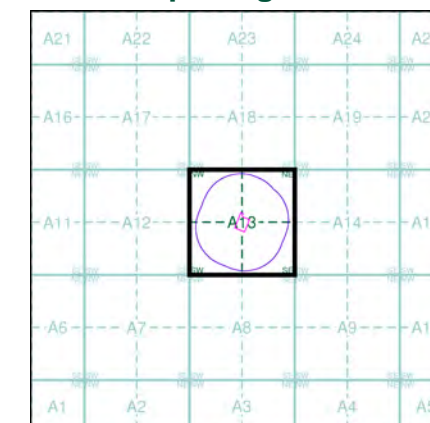
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)

TQ0991  
1960  
1:2,500



## Historical Map - Segment A13



## Order Details

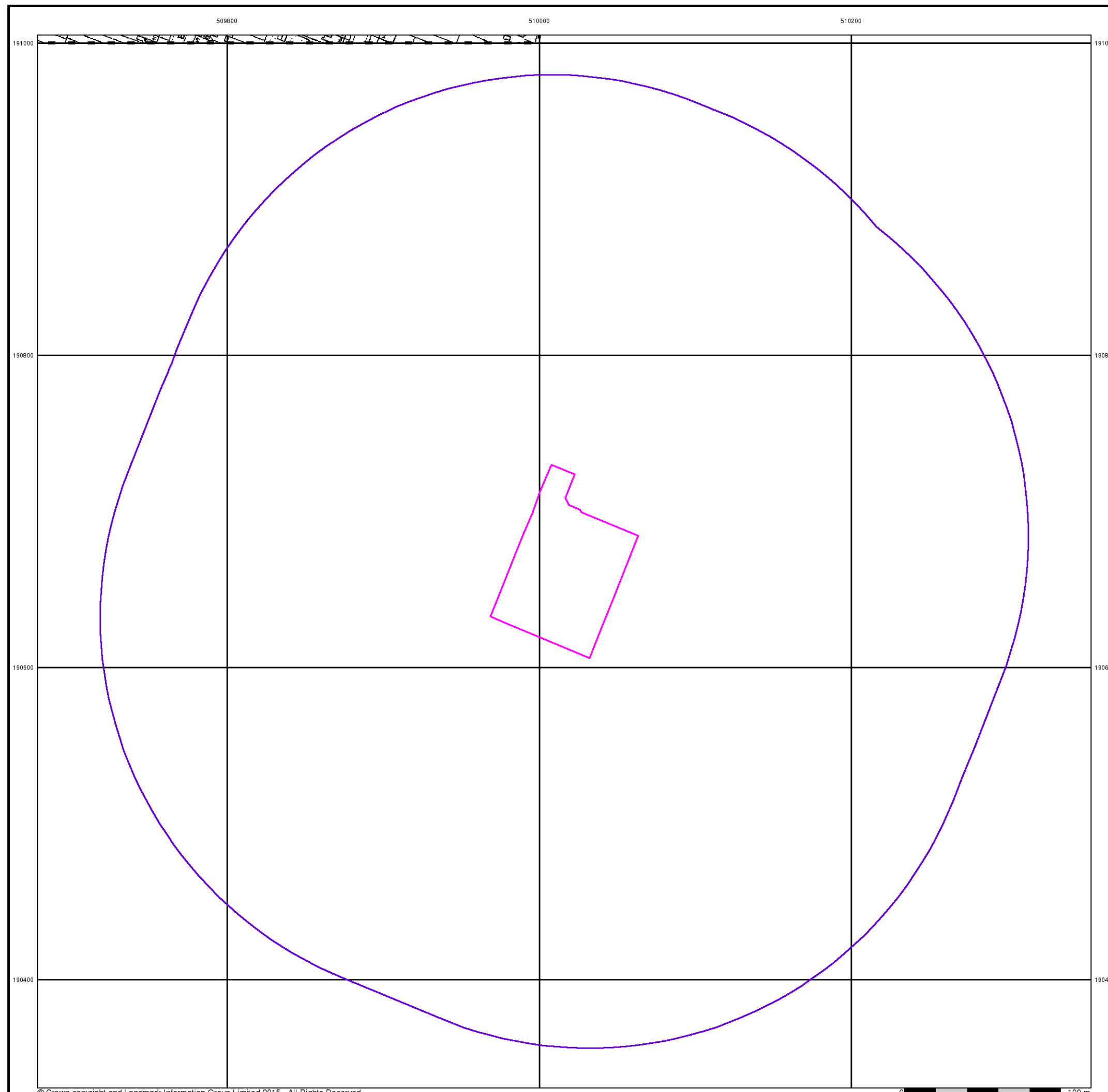
Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

## Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)







## Ordnance Survey Plan

Published 1970 - 1979

Source map scale - 1:1,250

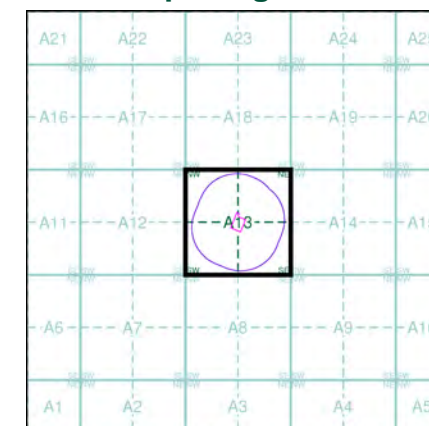
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

TQ0991SE  
1970  
1:1,250

TQ0990NE TQ1090NW  
1970 1979  
1:1,250 1:1,250

### Historical Map - Segment A13



### Order Details

Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

### Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE



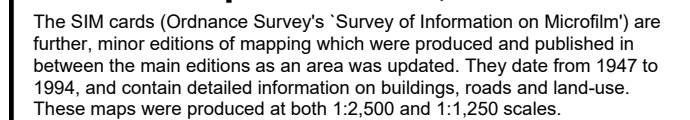
Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk











IQ0991SE	IQ1091SW
1978	1987
1:1,250	1:1,250
IQ0990NE	
1987	
1:1,250	
IQ0990SE	IQ1090SW
1988	1986
1:1,250	1:1,250



Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE







## Ordnance Survey Plan

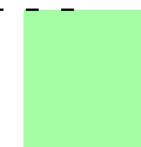
Published 1986

Source map scale - 1:1,250

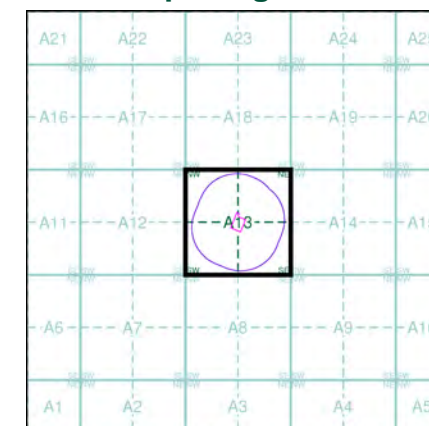
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

### Map Name(s) and Date(s)

TQ0991SE  
1986  
1:1,250



### Historical Map - Segment A13



### Order Details

Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

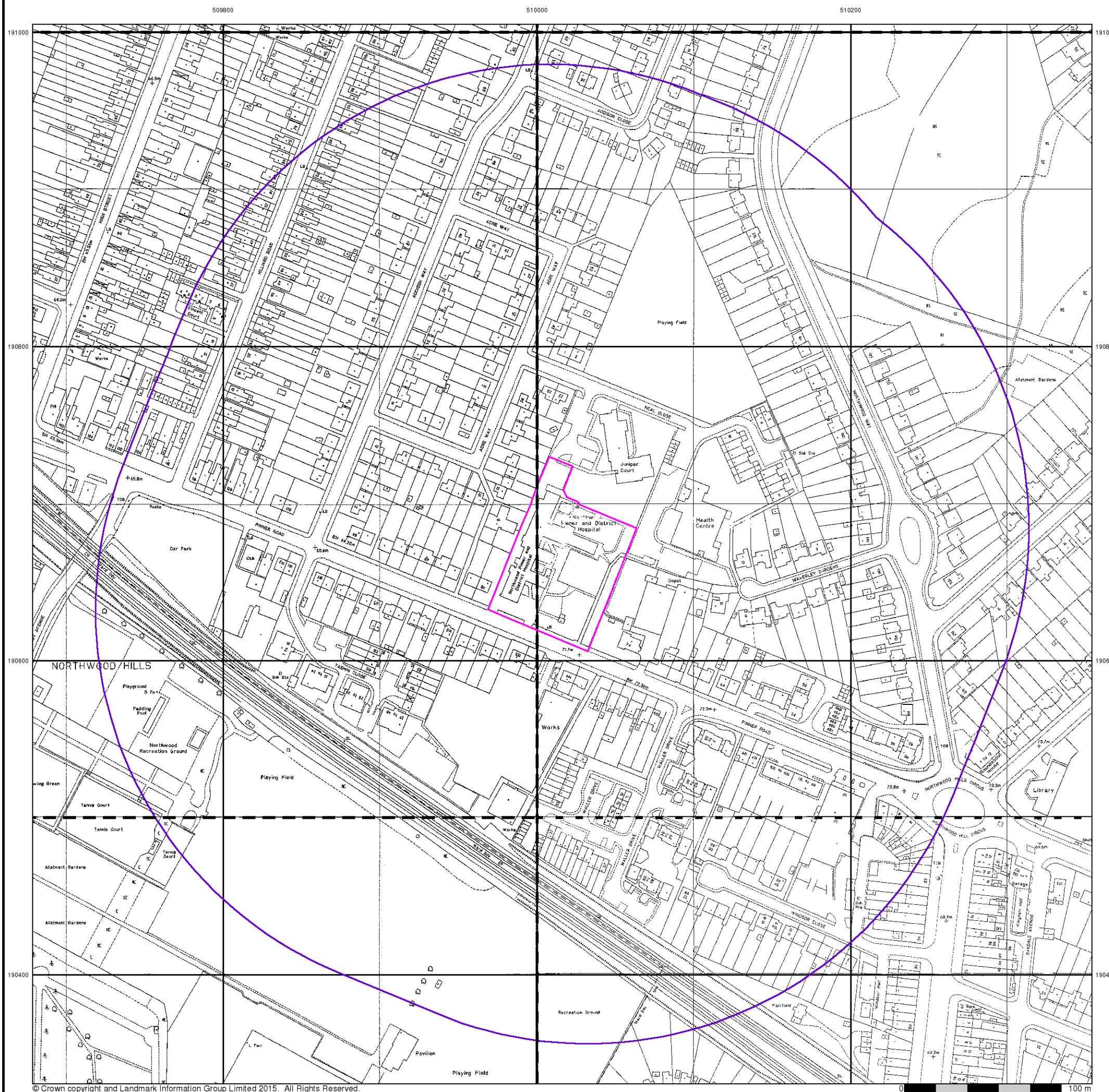
### Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk





## Large-Scale National Grid Data

**Published 1992**

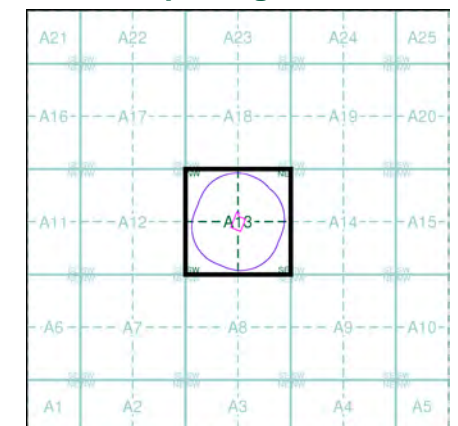
**Source map scale - 1:1,250**

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

## Map Name(s) and Date(s)

IQ0991SE	Q1091SW
1992	1992
1:1,250	1:1,250
IQ0990NE	Q1090NW
1992	1992
1:1,250	1:1,250
IQ0990SE	Q1090SW
1992	1992
1:1,250	1:1,250

## Historical Map - Segment A13



## Order Details

Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

## Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6  
1DE



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





## Large-Scale National Grid Data

Published 1993

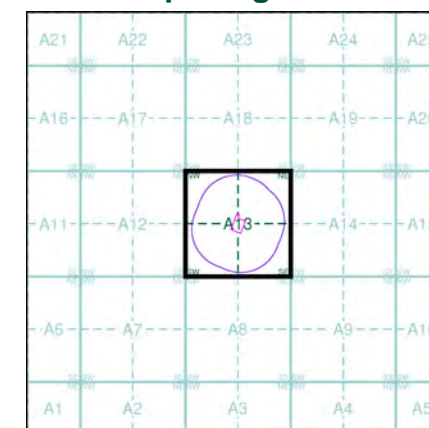
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

### Map Name(s) and Date(s)

TQ0990NE 1993 1:1,250	TQ1090NW 1993 1:1,250
-----------------------------	-----------------------------

### Historical Map - Segment A13



### Order Details

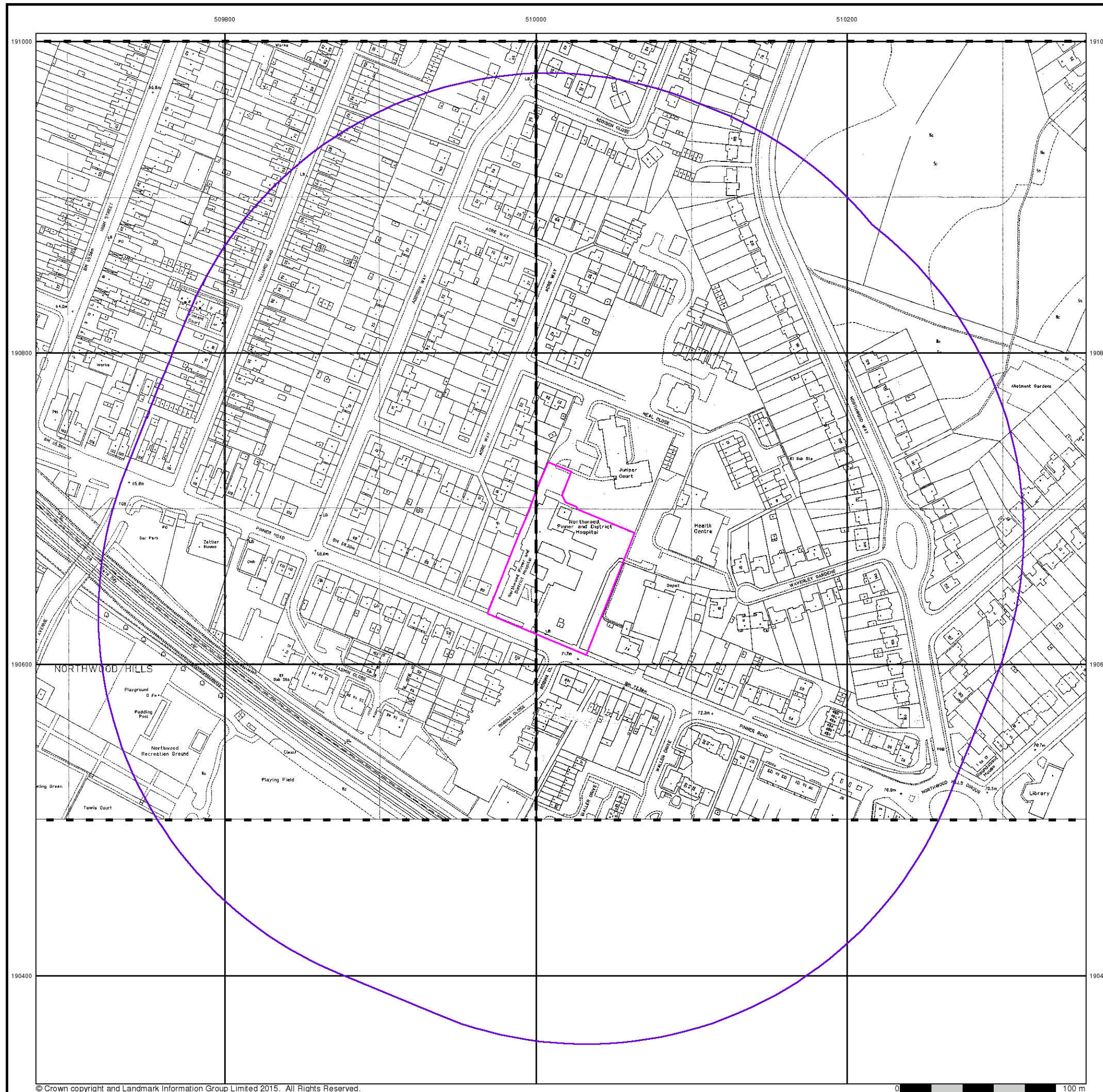
Order Number: 71541451\_1\_1  
Customer Ref: 35554/3501  
National Grid Reference: 510020, 190670  
Slice: A  
Site Area (Ha): 0.62  
Search Buffer (m): 250

### Site Details

Northwood & Pinner Hospital, Pinner Road, Northwood, HA6 1DE



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: www.envirocheck.co.uk









## **Appendix E    BGS Borehole Records**





255/134 TQ 19 SW/40  
10109065

## British Geological Survey

Griffen Ecological Survey

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

1. *Journal of the American Medical Association*, 1997; 278: 1039-1044.

Six-inch map 10 N.W./W.

Popular Edition Sheet

one-inch map. (Sutton)

~~surface level of po~~

... in, at bottom ...

*[Handwritten signature]*

doi:10.1371/journal.pone.0142402.g002

Time of recovery..... hours

gas, per

$\lim_{n \rightarrow \infty} \frac{\log(\log(n))}{\log(n)} = 0$ ,  $\lim_{n \rightarrow \infty} \frac{\log(n)}{\log(\log(n))} = \infty$ ,  $\lim_{n \rightarrow \infty} \frac{\log(n)}{\log(\log(n))} = \infty$ ,  $\lim_{n \rightarrow \infty} \frac{\log(n)}{\log(\log(n))} = \infty$ .

ate of boring.....17' 6"

British Geological Survey

English Geological Survey

Sw. 2.  
1910

716  
4/1/07

1

British Geological Survey

9

100

11



2/2



**British  
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

[< Prev](#)

Page 3 of 12 ▼

[Next >](#)

1/1



2/2



**British  
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 582975 : BGS Reference: TQ19SW40

British National Grid (27700) : 510100,190650

[Report an issue with this borehole](#)

<<

< Prev

Page 5 of 12 ▼

Next >

>>

TQ 19 SW 40  
255/134

**NORTHWOOD**

*Northwood*  
*now Express Dairy Coy*

|                                     |  |
|-------------------------------------|--|
| Appearance ...                      | White suspension and deposit of chalk. |
| Colour ...                          | Normal. Odour: none.                   |
| Reaction pH ...                     | Neutral 7.6. Free Carbonic Acid --     |
| Electric Conductivity at 25° C.     | 510                                    |
| Total Solids, 180° C ...            | 37.5                                   |
| Chlorine in Chlorides ...           | 2.2.                                   |
| Nitrogen in Nitrates ...            | Nil. Nitrites: absent                  |
| Hardness: Permanent ...             | 2.5                                    |
| Temporary ...                       | 18.0                                   |
| Total ...                           | 21.5                                   |
| Metals ...                          | Minute trace of Iron - 0.04            |
| Free Ammonia ...                    | 0.0160                                 |
| Albuminoid Ammonia ...              | 0.0006                                 |
| Oxygen absorbed in 48 hrs at 60° F. | 0.0250                                 |
| No. of Bacteria per C.C. ...        |  |
| in agar 3 days at 20° C.            | 220                                    |
| in agar in 1 day at 37° C.          | 4                                      |
| The Bacillus Coli ...               | Present in - Absent in 100 c.c.        |
| Bacillus Welchii ...                | Present in - Absent in 100 c.c.        |
| (B. entericus sporogenes)           |  |

**Report:** This water contains a deposit of chalk in suspension. It is of normal colour, neutral reaction and hard in character though not unduly so, the hardness being mainly of a temporary nature, it will form scale in boilers, in water pipes etc. The water is free from excess of saline matter and contains only a minute trace of iron. Both organically and bacteriologically, it is of high standard of purity.

The deposit of chalk is doubtless due to the general disturbance consequent on recent heavy operations and will diminish as the water is pumped, when we would regard it as a pure and wholesome water suitable for drinking and domestic purposes.



10 NW-W

## RECORD of WELL or BORING

Survey No. **255137**

Location, Village, &c. **Hundred Pine Farm, Northwood** County **Middlesex**

Exact site (unless a tracing from a map is supplied, give distance and direction from parish church, cross-roads, or other object shown on maps). **About 1 mile NE of Pine Farm and 1 mile SE of Northwood\***

Popular Edition (Sheet of one-inch map. Square **7**)

Surface level of ground **240\*** ft. above Ordnance Datum. Well or Bore commenced at **surface level of ground**. Sunk **300** ft., diameter **7** ft. Bored **300** ft.; diameter of boring: at top **7** in., at bottom **7** in.

Details of lining tubes (internal diameters preferred) **99 ft 7 8 3/8" 15 ft 2' below surface**

**TQ19/39**

Water struck at depths of (feet)

Rest-level of water **below** top of well or bore **90** ft. Pumping level **108** ft. Time of recovery **10** hours.

Suction at **90** ft. depth. Yield: (i) on test **3100** galls. per **hr**, (ii) normal **1000** galls. per **hr**.

Quality (attach copy of analysis if available) **No Express Dairy Company.**

Made by **L. Brand & Co. Ltd.** for **Northwood Dairy** Date of boring **1986**

Information from **L. Brand & Co. Ltd.**

| (For Survey use only).<br>GEOLOGICAL<br>CLASSIFICATION. | NATURE OF STRATA.<br>(and any additional remarks) | THICKNESS. |          | DEPTH.     |          |
|---|---|------------|----------|------------|----------|
|   |   | Feet.      | Inches.  | Feet.      | Inches.  |
|   | <b>Marl from</b>                                  |            | <b>6</b> |            | <b>6</b> |
| <b>hard on clay</b>                                     | <b>Marl Clay</b>                                  | <b>23</b>  | <b>6</b> | <b>24</b>  | <b>-</b> |
| <b>38 ft</b>  | <b>Marl Clay</b>                                  | <b>10</b>  | <b>0</b> | <b>34</b>  | <b>-</b> |
|   | <b>Conglomerate</b>                               | <b>6</b>   | <b>0</b> | <b>40</b>  | <b>-</b> |
| <b>W.R.</b>   | <b>Marl Clay</b>                                  | <b>15</b>  | <b>0</b> | <b>55</b>  | <b>-</b> |
| <b>54</b>   | <b>Marl Clay</b>                                  | <b>4</b>   | <b>0</b> | <b>59</b>  | <b>-</b> |
|   | <b>Marl Clay</b>                                  | <b>10</b>  | <b>0</b> | <b>69</b>  | <b>-</b> |
|   | <b>Marl Clay</b>                                  | <b>10</b>  | <b>0</b> | <b>79</b>  | <b>-</b> |
|   | <b>Conglomerate</b>                               | <b>8</b>   | <b>0</b> | <b>87</b>  | <b>-</b> |
|   | <b>Flint</b>                                      | <b>1</b>   | <b>0</b> | <b>88</b>  | <b>-</b> |
| <b>Chalk</b>  | <b>Chalk &amp; Flint</b>                          | <b>212</b> | <b>0</b> | <b>300</b> | <b>-</b> |

*The W.R. Bed is rather thinner than would be expected. The boundary between them is 16 ft 10 in. & may be above the clay.*

**Swiss 1920**

**Permanent hardness 3.5°**  
**Temporary 18.0°**  
**Total 21.5°**

**71 ft 6 in**  
**21/5/57**

Note made by C.H.D. when interviewing Mr. Roberts 24.11.54

Surface level is within a few inches, same as the B.M. on Mr. Roberts' house across the road, viz. **238.90 O.D.** — say **239 ft.**

→ Site is at N end of bottling & cooling building, 75 yds. NE of Pine Road and 420 yds. NW by N. of bridge over railway at Northwood Hill Sts.

It is only 130 yds E of SW corner of Northwood & Pine Road Memorial Hospital, and pipe is laid for delivering from borehole into the hospital tank in case of accident to hospital's main supply. Pump driven by **X**

Amount normally used unknown — as much as the pumps will deliver. Normally used 8 hrs per day (10-6 p.m.)

Used for cooling (temperature rarely > 55° F on a hot day), & for boiler

Definitely much "lime" in the boiler tubes, which have to be cleaned about every 3 months

Date **Back**

**3/8 m. S.E. of Northwood Church.**  
**Found in and visited over. 13:5:60**  
**Disused - see W6 255137 - 28/10/49.**

GEOLOGICAL SURVEY AND MUSEUM,  
SOUTH KENSINGTON,  
LONDON, S.W.7.

For Survey use only.

|                                  |                       |                       |                                      |
|----------------------------------|-----------------------|-----------------------|--------------------------------------|
| Date received.<br><b>21/5/57</b> | G.S.M.<br><b>6394</b> | M. of M.<br>notified. | Site marked on 1" map.<br>+ 6" K map |
|----------------------------------|-----------------------|-----------------------|--------------------------------------|

(66237B) Wt 28270/58 2,500 2/35  
H, J, R & L, Ltd Gp



**British  
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 582975 : BGS Reference: TO19SW40

British National Grid (27700) : 510100,190650

[Report an issue with this borehole](#)



[< Prev](#)

Page 7 of 12 ▼

Next >

>>

TQ 19 SW/40

255/134 D.

BOREHOLE SECTION SHEET.

LE GRAND, SUTCLIFF & GELL, LTD. Date 18th May 1937.

CONTRACT NAME..... ORDER NO. ....

Bored for: J.M. Roberts & Son,

Address: 6 Hundred Acre Farm, Northwedge, NEDDY.  
Address of Sir: Sir, British Geological Survey

Address of Site: About 1 mile N.E. from Kuislip Reservoir and 1 mile S.W.  
District or Town: Northwood

District or Town: Northwood. County: York.

Standing Water Level: 50' Ft. Ins. Below Surface  
Dia. of Borehole: 10 inches  
County: York  
Pumping W.L. 11' Ft. Ins. Below Surface

Dia. of Borehole: \_\_\_\_\_ Inches  
 Water Sample (1) \_\_\_\_\_  
 Yield of Water: \_\_\_\_\_ G.P.H.

Water Struck (1) 2001 Ft. B.S. (2) Field of Water: 3200 G.P.H. O.D. of Sigs: plus 240  
Being Commenced: 2001-2-28 Ft. B.S. (3) Ft. B.S. (4) Ft. B.S.

Being Commenced: 10.3.38 Boring Completed: 12.4.38

Special Remarks: Analysis of Water, (Tubing: 99' of 6", top 2' below surface.  
Perm: 2.6, Temp: 12.0 - Total 21.5.

FULL DETAILED DESCRIPTION OF STRATA

Clients are requested to examine the samples of the strata submitted, as the descriptions employed above are general terms and responsibility is not accepted for their application to commercial purposes.

No. - Boring

| Geological Survey     |  | British Geological Survey |     |
|-----------------------|--|---------------------------|-----|
| Up ground.            |  | 6                         | 6   |
| Notled Clay.          |  | 22                        | 24  |
| Blue Clay.            |  | 10                        | 34  |
| Conglomerate.         |  | 6                         | 40  |
| Notled Clay.          |  | 15                        | 55  |
| Notled Clay & Stones. |  | 4                         | 59  |
| Notled Loamy Sand.    |  | 10                        | 69  |
| Notled Clay.          |  | 10                        | 79  |
| Conglomerate.         |  | 8                         | 87  |
| Flints.               |  | 1                         | 88  |
| Chalk & Flints.       |  | 212                       | 300 |

The H.R. 855  
are Chairman that  
some be needed.  
The Committee may be  
in 1978. The way  
11/6/78  
H/1/57  
LZ/CF

For Leonard Sutcliffe & Co. Ltd.

Total from Surface: 300 - 300





NORTHWOOD

SB 5/106. 3  
 255/137  
 Legrand, Duffell & Gell  
 The Green  
 Southall. Mdx  
 TQ19/39

C. M. Roberts & Sons  
 Hundred Acre Farm  
 Northwood  
 now Express Dairy Coy

Analysis.

Appearance ... ..  
 Colour ... ..  
 Reaction p.H. ... ..  
 Electric Conductivity at 20°C.  
 Total Solids, 180°C ... ..  
 Chlorine in Chlorides ... ..  
 Nitrogen in Nitrates ... ..  
 Hardness: Permanent ... ..  
                   Temporary ... ..  
                   Total. ... ..  
 Metals ... ..  
 Free Ammonia ... ..  
 Albuminoid Ammonia ... ..  
 Oxygen absorbed in 4 hrs at 80°F.

21/4/36

White suspension and deposit of Chalk.  
 Normal. Odour: None.  
 Neutral 7.6. Free Carbonic Acid —  
 510  
 34.0  
 2.2.  
 Nil. Nitrites: Absent  
 3.5  
 18.0  
 21.5  
 Minute trace of Iron - 0.04  
 0.0160  
 0.0006  
 0.0250

No. of Bacteria per C.C.

On Agar 3 days at 20°C.  
 On Agar in 1 day at 37°C.  
 The Bacillus Coli ... ..  
 Bacillus Welchii ... ..  
 (B. Enteridis Sporogones)

220

4

Present in - Absent in 100 cc  
 Present in - Absent in 100 c.c.

Report:

This water contains a deposit of Chalk in suspension.  
 It is of normal colour, neutral reaction and hard in character, though not unduly so, the hardness being mainly of a temporary nature, it will form scale in boilers, hot water pipes etc. The water is free from excess of saline matter and contains only a minute trace of Iron.

Both organically and bacteriological, it is of high standard of purity.

The deposit of Chalk is doubtless due to the general disturbance consequent on recent boring operations and will diminish as the water is pumped, when we would regard it as a pure and wholesome water suitable for drinking and domestic purposes.

Date

Sunk

G.F.E.

1 Q 19 SW / 40

British Geological Survey

British Geological Survey

British Geological Survey

British Geological Survey

British Geological Survey

British Geological Survey

## THE PERMUTIT COMPANY LIMITED

Head Office and Laboratories:

PERMUTIT HOUSE, GUNNERSBURY AVENUE, LONDON, W.4.

## ANALYSIS OF SAMPLE OF WATER

British Geological Survey

British Geological Survey

Date 9. April 1948

Received from

Express Dairy Co.,  
Northwood

Source

Well

Lab. No.

File No. 25595/SHB/10

Use

Date of Sampling

## CONDITION AT TIME OF ANALYSIS.

British Geological Survey

British Geological Survey

British Geological Survey

Appearance

Clear

Turbidity

1 pts. per million

Appearance after Filtration

Clear

Smell

nil

pH Value

c. 7.5

Colour

haze 5

Electrical Conductivity

500

Suspended Matter

Trace

## ANALYSIS.

## CONVENTIONAL COMBINATIONS.

PARTS PER 100,000

grains/gal.

British Geological Survey

British Geological Survey

British Geological Survey

Lime (as CaO)

Magnesia (as MgO)

Iron (as Fe) Total

0.0105

" " in Solution

Silica (as SiO<sub>2</sub>)

Chloride (as Cl)

1.75

Sulphate (as SO<sub>3</sub>)

British Geological Survey

Nitrate (as N<sub>2</sub>O<sub>3</sub>)Phosphate (as PO<sub>4</sub>)Free Carbon Dioxide (as CO<sub>2</sub>)

1.1

Total Solids at 180°C.

Bicarbonate Alkalinity (as CaCO<sub>3</sub>)

16.50

Carbonate " "

Caustic " "

Silica

Oxide of Iron

Calcium Carbonate

Calcium Sulphate

Calcium Chloride

Magnesium Carbonate

Magnesium Sulphate

Magnesium Chloride

Magnesium Nitrate

Sodium Sulphate

Sodium Chloride

Sodium Nitrate

Sodium Carbonate

Sodium

Grains per Gallon = parts per 100,000 x 0.7

Temporary Hardness 16.50 (Degrees English grains CaCO<sub>3</sub> per gallon)

Permanent Hardness 1.75

Total Hardness 18.25

(LB./AL.) 9/8/48

British Geological Survey

British Geological Survey

British Geological Survey





**British  
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 582975 : BGS Reference: TQ19SW40

British National Grid (27700) : 510100,190650

[Report an issue with this borehole](#)

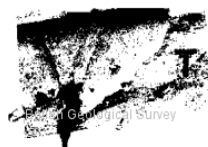
<<

< Prev

Page 10 of 12 ▼

Next >

>>



**THE PERMUTIT COMPANY LIMITED**

Head Office and Laboratories :

PERMUTIT HOUSE, GUNNERSBURY AVENUE, LONDON W.11

**ANALYSIS OF SAMPLE OF WATER**

Date 9. April 1948

Received from

Express Dairy Co.,  
Northwood

Source

well

Lab. No.

File No.

25595/SHB/1W

Use

Date of Sampling

**CONDITION AT TIME OF ANALYSIS.**

Appearance

clear

Turbidity

1

pts. per million

Appearance after Filtration

clear

Smell

nil

pH Value

c. 7.5

Colour

hazen 5

Electrical Conductivity

500

Suspended Matter

Trace

**ANALYSIS.**

**CONVENTIONAL COMBINATIONS.**

~~PARTS PER 100,000~~

grains/gal.

Lime (as CaO)

Silica

Magnesia (as MgO)

Oxide of Iron

Iron (as Fe) Total

0.0105

Calcium Carbonate

" " In Solution

Calcium Sulphate

Silica (as SiO<sub>2</sub>)

Calcium Chloride

Chloride (as Cl)

1.75

Magnesium Carbonate

Sulphate (as SO<sub>4</sub>)

Magnesium Sulphate

Nitrate (as N<sub>2</sub>O<sub>5</sub>)

Magnesium Chloride

Phosphate (as PO<sub>4</sub>)

Magnesium Nitrate

Free Carbon Dioxide (as CO<sub>2</sub>)

1.1

Sodium Sulphate

Total Solids at 180°C.

Sodium Chloride

~~Bicarbonate~~ Alkalinity (CaCO<sub>3</sub>)

16.80

Sodium Nitrate

Carbonate

Sodium Carbonate

Caustic

Sodium

Grains per Gallon = parts per 100,000 x 0.7

Temporary Hardness 16.80 (Degrees English grains CaCO<sub>3</sub> per gallon)

Permanent Hardness 1.75

Total Hardness 18.55

**Data**

**Bank**

(LB./AL3./008/6/47.)



BGS ID: 582975 : BGS Reference: TQ19SW40  
British National Grid (27700) : 510100,190650

[Report an issue with this borehole](#)

Parts per 100,000

|                  |              |                  |  |
|------------------|--------------|------------------|--|
| Lime             |              | Chlorides        |  |
| Magnesia         |              | Sulphates        |  |
| Palmitate        |              | Nitrates         |  |
| Acidity          |              | F.M.A.           |  |
| Alkalinity       | P.P.<br>m.o. | Suspended Solids |  |
| Iron             |              | Turbidity        |  |
| Iron In Solution |              | Manganese        |  |
| Silica           |              | Dissolved Oxygen |  |

(LB./AL3./008/6/47.)





**British  
Geological Survey**

NATURAL ENVIRONMENT RESEARCH COUNCIL

BGS ID: 582975 : BGS Reference: TQ19SW40

British National Grid (27700) : 510100,190650

[Report an issue with this borehole](#)

&lt;&lt;

&lt; Prev

Page 12 of 12 ▾

Next &gt;

&gt;&gt;

**BOREHOLE SECTION SHEET.**

**LE GRAND, SUTCLIFF & GELL, LTD.**

255/137D FORM No. 1. H  
Date 13th May 19 37.

CONTRACT NAME

NORTHWOOD

ORDER NO.

255/137D

Bored for: C.M. Roberts & Son,

Address: Hundred Acre Farm, Northwood, MIDDX.

Address of Site: About 1 mile N.E. from Ruislip Reservoir and 1 mile S.E. from Northwood itself.

District or Town: Northwood.

County: MIDDX.

Standing Water Level: 90' Ft. Ins. Below Surface Pumping W.L. 108' Ft. Ins. Below Surface

Dia. of Borehole: Inches Yield of Water: 3100 G.P.H. O.D. of Site: plus 240

Water Struck (1) 132' Ft. B.S. (2) Ft. B.S. (3) Ft. B.S. (4) Ft. B.S.

Boring Commenced: 30.3.36 Boring Completed: 18.4.36 Ref. 1081/S.B. 5/106

Special Remarks: Analysis of Water. (Tubing: 99' of 8 $\frac{5}{8}$ " top 2' below surface.)

Perm: 3.5, Temp: 18.0 - Total 21.5.

**FULL DETAILED DESCRIPTION OF STRATA**

THICKNESS  
FEET INCHES  
DEPTH BELOW  
SURFACE  
FEET INCHES

Clients are requested to examine the samples of the strata submitted, as the descriptions employed above are general terms and responsibility is not accepted for their application to commercial purposes.

No. - Boring

|                        |     |     |         |
|------------------------|-----|-----|---------|
| Made up ground.        | MGR | 6   | 6       |
| Mottled Clay.          |     | 23  | 6 / 24  |
| Blue Clay.             | LC  | 10  | - / 34  |
| Conglomerate.          |     | 6   | - / 40  |
| Mottled Clay.          |     | 15  | - / 55  |
| Mottled Clay & Stones. |     | 4   | - / 59  |
| Mottled Loamy Sand.    | RB  | 10  | - / 69  |
| Mottled Clay.          |     | 10  | - / 79  |
| Conglomerate.          |     | 8   | - / 87  |
| Flints.                |     | 1   | - / 88  |
| Chalk & Flints.        | UCK | 212 | - / 300 |

The W.R. best  
is well  
The boundary may be  
about 16' off  
LI/JF  
2/5/57

For LeGrand Sutcliffe & Gell Ltd.

*Samuel*

*Spencer*

Data

Bank

Total from Surface: 300 - 300 -

## Appendix F Topographic Survey



