

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF CONSERVATION AND ECONOMIC DEVELOPMENT

MAILING ADDRESS:

DIVISION OF MINERAL RESOURCES

OFFICE ADDRESS:

Box 3667
Charlottesville, VA 22903

JAMES L. CALVER, COMMISSIONER

McCormick Road
Charlottesville, Virginia

WATER WELL COMPLETION REPORT

11048 Earwick Blvd.

OWNER: Warwick Plumbing & Heating Corp. Mailing Address: Newport News, VA 23601

TENANT: Newport News City Hall Complex Mailing Address: Newport News, Virginia

DRILLER: Sydnor Hydrodynamics, Inc. Mailing Address: P. O. Box 1476
Richmond, VA 23212

WELL LOCATION: County Warwick (Newport News) Approx. 100 feet ~~miles~~ southeast (direction) of
25th Street and 1000 feet ~~miles~~ northeast (direction) of West Avenue

(GIVE DIRECTION AND DISTANCE IN FEET OR MILES FROM TWO REFERENCE POINTS - ROADS, TOWNS, RIVERS, ETC. - ON COUNTY HIGHWAY OR OTHER MAP.)

DATE STARTED: 5/14/70 DATE COMPLETED: 7/7/70

TYPE OF DRILL RIG USED: Rotary TOTAL DEPTH 900 feet

WATER LEVEL: Stands 47 1/2 feet below ~~surface~~ basement level OR
has NATURAL flow of _____ gallons per minute.

YIELD TEST: Method Submersible
Drawdown 36 3/4 feet
Rate 135 gal. per min.
Duration 12 hrs., 0 min.

HOLE SIZE: 19 inches from 0 to 62 feet
15 1/4 inches from 62 to 205 feet
11 1/4 inches from 205 to 860 feet
9 7/8 inches from 860 to 900 feet
SCREEN SIZE: 4 inches from 800 to 850 feet

WATER ZONES: from 800 to 850 feet
from _____ to _____ feet
from _____ to _____ feet

CASE SIZE: 16 inches from 0 to 62 feet
8 inches from 11 to 183 feet
4 inches from 183 to 800 feet
4 inches from 850 to 855 feet

WATER: Color clear Taste _____
Odor _____ Temp. _____ °F

GROUTING: Method Pressure
Material cement & water Depth 62 feet

WELL TO SUPPLY: (check one) Home _____
Farm _____ Town X School _____
Industry _____ Other _____

PUMP: Type _____
Capacity _____ gal. per min.
Depth of intake _____ feet

WATER ANALYSIS AVAILABLE: Yes X No _____
DRILL CUTTINGS SAVED: Yes 90 No _____

(DRILL CUTTINGS SHOULD BE COLLECTED AT 10 FOOT INTERVALS. THESE SAMPLES MAY BE SHIPPED TO THIS OFFICE EXPRESS COLLECT. SAMPLE BAGS ARE FURNISHED FREE OF CHARGE UPON REQUEST.)

REMARKS: _____

LOG

FURNISHED BY: Sydnor Hydrodynamics, Inc.

DATE: 7/2/70

DEPTH (feet)		TYPE OF ROCK OR SOIL PENETRATED (gravel, clay, etc., hardness, color, etc.)	REMARKS (water, caving, shot, screen, sample, etc.)
FROM	TO		
0	18	Sand	
18	85	Clay, some sand and shells mixed	
85	150	Black sand, clay and shells	
150	172	Mostly clay - some sand	
172	174	Hard shells	
174	175	Sand	
175	205	Sand, clay and shells	
205	220	Sand and shells mixed	
220	285	Clay	
285	310	Sand, shells, some clay	
310	398	Clay	
398	408	Sand - shells mixed	
408	415	Sand, clay and shells	
415	454	Black sand, clay, shells, mixed	
454	503	Clay	
503	504	Shell rock	
504	538	Clay	
538	550	Black sand	
550	590	Tough clay, some black sand	
590	610	Clay	
610	618	Sand, streaks of shell	
618	657	Mostly clay - some black sand	
657	663	Sand	
663	686	Clay	
686	695	Sand - streaks of shells	
695	755	Hard clay - streaks of sand mixed	
755	760	Clay	
760	768	Sand	
768	800	Clay, sand, shells mixed	
800	830	Sand - few shells	
830	860	Lot of gray sand - some clay mixed	
860	900	Mostly all clay, mixed with streaks of sand	

(Use additional forms if necessary)

VIRGINIA DIVISION OF MINERAL RESOURCES
Box 3667, Charlottesville, VA 22903

INTERVAL SHEET

Page 1 of 1 Well Repository No: C-68 3095
Date rec'd: 8/17/70 ; processed 3/4/71 Sample Interval; from 0 to: 900'
PROPERTY: Warwick Plumbing & Heating Corp. Number of samples: 90
(Newport News City Hall)
COMPANY: Sydnor Hydrodynamics, Inc. Total Depth: 900'
COUNTY: Warwick (Newport News) Oil or Gas: Water;x Exploratory:

From-To	From-To	From-To	From-To
0 - 10	250 - 260	500 - 510	750 - 760
10 - 20	260 - 270	510 - 520	760 - 770
20 - 30	270 - 280	520 - 530	770 - 780
30 - 40	280 - 290	530 - 540	780 - 790
40 - 50	290 - 300	540 - 550	790 - 800
50 - 60	300 - 310	550 - 560	800 - 810
60 - 70	310 - 320	560 - 570	810 - 820
70 - 80	320 - 330	570 - 580	820 - 830
80 - 90	330 - 340	580 - 590	830 - 840
90 - 100	340 - 350	590 - 600	840 - 850
100 - 110	350 - 360	600 - 610	850 - 860
110 - 120	360 - 370	610 - 620	860 - 870
120 - 130	370 - 380	620 - 630	870 - 880
130 - 140	380 - 390	630 - 640	880 - 890
140 - 150	390 - 400	640 - 650	890 - 900
150 - 160	400 - 410	650 - 660	-
160 - 170	410 - 420	660 - 670	-
170 - 180	420 - 430	670 - 680	-
180 - 190	430 - 440	680 - 690	-
190 - 200	440 - 450	690 - 700	-
200 - 210	450 - 460	700 - 710	-
210 - 220	460 - 470	710 - 720	-
220 - 230	470 - 480	720 - 730	-
230 - 240	480 - 490	730 - 740	-
240 - 250	490 - 500	740 - 750	-

All intervals have both washed & unwashed samples

(Newport News City Hall)
OWNER : Warwick Plumbing and Heating Corporation
DRILLER: Sydnor Hydrodynamics
COUNTY : Warwick
(Newport News)

W# : 3095
C# : 68
TOTAL DEPTH: 900'
QUAD : Newport News
South

GEOLOGIC LOG

Depth
(feet)

- 0-10 Sand- grayish-orange; medium grained to granular; subangular to subrounded; poorly sorted; quartz; feldspar; some opaques; few grains of glauconite.
- 10-20 Granules- grayish-orange; abundant coarse to very coarse grained sand, some medium grains; subangular to subrounded; moderately sorted; quartz; feldspar; few opaques; glauconite; few shell fragments.
- 20-30 Shell fragments- light olive gray, white; slightly silty; 3% granules, few pebbles; subangular to subrounded; well sorted; 95% shell fragments; quartz; some feldspar; forams (inc. Quinqueloculina, Nonion, Buccella, and Cibicides?); few echinoid spines.
- 30-40 As above except 5% pebbles; 90% shell fragments; forams (inc. Textularia and Quinqueloculina).
- 40-50 Sand- light olive gray; moderate clay; moderate silt; fine to medium grained; subangular to subrounded; well sorted; quartz; 5% shell fragments; some black phosphatic material; some echinoid spines; ostracodes common; forams common (inc. Buccella and Textularia); few flakes of muscovite. (Note: Most forams are too worn for identification)
- 50-60 Sand- light olive gray; moderate clay; slightly silty; fine to medium grained, few granules, some pebbles; subangular to subrounded; moderately well sorted; quartz; 10% shell fragments; some echinoid spines; ostracodes common; forams (inc. Buccella, Nonion, Quinqueloculina, and Globigerina).
- 60-70 Sand- light olive gray; moderate clay; fine grained; subangular to subrounded; well sorted; quartz; 2% shell fragments; some echinoid spines; few grains of glauconite; ostracodes; forams (inc. Quinqueloculina and Textularia). (Note: Most forams are too worn for identification)
- 70-80 Sand and shell fragments- light olive gray; moderate clay; moderate silt; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 40% shell fragments; some echinoid spines; glauconite; forams (inc. Nonion, Textularia, Globigerina, Buccella, and Robulus?); ostracodes.

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Depth
(feet)

- 80-90 As above except 30% shell fragments, inc. Turritella; 10% glauconite; no Robulus?.
- 90-100 Sand- light olive gray; medium grained, some coarse grains; subangular to rounded; well sorted; quartz; 15% shell fragments; 10% glauconite; some sandy limestone fragments; some echinoid spines; forams. (Note: Forams are too worn for identification)
- 100-110 As above except slightly clayey; slightly silty; Cibicides.
- 110-120 Sand- light olive gray; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 20% shell fragments; 10% glauconite; some sandy limestone fragments; some echinoid spines; few black phosphatic fragments; forams (inc. Quinqueloculina and Cibicides); ostracode.
- 120-130 As above except slightly clayey; moderate silt; 5% glauconite; few grains of garnet.
- 130-140 As above plus 3% pebbles; 7% glauconite; forams scarce.
- 140-150 Sand- light olive gray; slightly clayey; moderate silt; medium grained, some fine grains; subangular to rounded; well sorted; quartz; 15% glauconite; 5% shell fragments; few echinoid spines; forams (inc. Quinqueloculina and Buccella?).
- 150-160 Sand- light olive gray; moderate clay; moderate silt; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 10% shell fragments; 5% glauconite; few echinoid spines; forams scarce (inc. Quinqueloculina); ostracode.
- 160-170 As above except forams scarce; bone fragment.
- 170-180 Shell fragments- light olive gray; slightly clayey; slightly silty; moderate sand; fine to medium grained; subangular to subrounded; moderately well sorted; 75% shell fragments; quartz; glauconite 7% of sand fraction; few echinoid spines; few black phosphatic fragments inc. shark's tooth; forams; ostracodes.
- 180-190 As above except sand; 25% shell fragments; no shark's tooth.
- 190-200 As above except fine to coarse grained; moderately sorted; 40% shell fragments; ostracode.
- 200-210 Sand- light olive gray; moderate clay; slightly silty; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 35% shell fragments; 7% glauconite; few echinoid spines; forams (inc. Buccella); ostracodes; bone fragment.

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Depth
(feet)

- 210-220 As above except sand and shell fragments; 50% shell fragments; forams (inc. Nonion, Textularia, Quinqueloculina, and Cibicides?); few grains of garnet.
- 220-230 Sand- light olive gray; moderate clay; moderate silt; fine grained, some medium grains; subangular to subrounded; well sorted; quartz; 10% shell fragments; 3% glauconite; few echinoid spines; forams scarce; ostracode.
- 230-240 Clay- light olive gray; abundant silt; abundant sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 7% shell fragments; glauconite 5% of sand fraction; forams (inc. Nonion).
- 240-250 Sand- light olive gray; moderate clay; slightly silty; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 15% shell fragments; 7% glauconite; forams (inc. Nonion, Textularia, and Buccella); few echinoid spines.
- 250-260 Clay- light olive gray; abundant silt; moderate sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 5% shell fragments; some glauconite; few echinoid spines; forams rare (inc. Nonion).
- 260-270 Sand- light olive gray; moderate clay; moderate silt; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 7% shell fragments; 5% glauconite; few echinoid spines; forams (inc. Nonion, Textularia, and Globigerina); ostracode.
- 270-280 As above except 10% shell fragments; forams (inc. Nonion, Quinqueloculina, Buccella, Textularia, and Cibicides); ostracodes.
- 280-290 Sand- light olive gray; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; 30% shell fragments; 5% glauconite; few echinoid spines; forams rare (inc. Globigerina).
- 290-300 As above except 15% shell fragments; forams scarce (inc. Nonion and Cibicides).
- 300-310 Sand- light olive gray; slightly clayey; medium to coarse grained, some fine grains; subangular to subrounded; moderately well sorted; quartz; 10% shell fragments; 7% glauconite; few grains of garnet; few echinoid spines; forams scarce (inc. Nonion).

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Depth
(feet)

- 310-320 Sand and clay- light olive gray; moderate clay; abundant sand; moderate silt; medium to coarse grained, some fine grains; subangular to subrounded; moderately well sorted; quartz; 7% shell fragments; 3% glauconite; few echinoid spines; forams (inc. Nonion, Robulus, and Buccella); ostracode.
- 320-330 As above except sand; moderate clay; 5% shell fragments; ostracodes; no Robulus.
- 330-340 As above except 7% shell fragments; forams (inc. Robulus and Nonion).
- 340-350 As above except 3% shell fragments.
- 350-360 Sand- light olive gray; moderate clay; moderate silt; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 3% shell fragments; glauconite 3% of sand fraction; forams (inc. Nonion, Buccella?, and Textularia).
- 360-370 As above except forams (inc. Robulus, Quinqueloculina, Textularia, and Nonion).
- 370-380 As above except 5% glauconite; forams (inc. Robulus and Buccella).
- 380-390 Sand- light olive gray; moderate clay; slightly silty; fine to medium grained; subangular to subrounded; moderately well sorted; quartz; 3% glauconite; 2% muscovite; few echinoid spines; forams (inc. Nonion, Robulus, Buccella, and Cibicides); ostracode.
- 390-400 Clay- light olive gray; abundant silt; moderate sand; fine to coarse grained; subangular to subrounded; moderately sorted; quartz; 2% glauconite; 2% shell fragments; forams (inc. Siphogenerina, Buccella, Nonion, and Robulus).
- 400-410 Sand- light olive gray; slightly silty; medium grained, some fine grains, some coarse grains; subangular to rounded; moderately well sorted; quartz; 15% glauconite; 5% forams (inc. Uvigerina, Globigerina, Nonion, Buccella, Textularia, Nodosaria, Bulimina, Robulus, Dentalina, Bolivina, and Pyrulina); some shell fragments.
- 410-420 Sand- light olive gray; slightly silty; medium to coarse grained, some fine grains, some granules; subangular to rounded; moderately sorted; quartz; 15% glauconite; some shell fragments; forams abundant (inc. Buccella, Nonion, Uvigerina, Robulus, Globigerina, Siphogenerina, and Globulina).

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Depth
(feet)

- 420-430 Sand- light olive gray; slightly silty; medium to coarse grained, few granules; subangular to rounded; moderately well sorted; quartz; 35% glauconite; some shell fragments; forams (inc. Buccella, Globigerina, Nonion, and Robulus); ostracode.
- 430-440 Sand- light olive gray; coarse to very coarse grained, some medium grains, 5% granules; subrounded to rounded; moderately sorted; quartz; 20% glauconite; some shell fragments; few grains of garnet; forams scarce (inc. Nonion and Buccella).
- 440-450 As above except 35% glauconite; foram; no garnet.
- 450-460 Sand- olive light gray; abundant clay; moderate silt; fine to coarse grained, few granules; subangular to rounded; moderately sorted; quartz; 25% glauconite; some limestone and shell fragments; forams abundant (inc. Uvigerina, Robulus, Nonion, and Pyrulina); ostracode.
- 460-470 As above except fine to medium grained, some coarse grains; forams common (inc. Bulimina, Nonion, Uvigerina, Buccella, Guttulina, and Discorbis).
- 470-480 Sand- light olive gray; medium to very coarse grained, some granules; subangular to rounded; moderately sorted; quartz; 20% glauconite; some shell fragments; forams (inc. Uvigerina, Nonion, Buccella, and Pyrulina?).
- 480-490 As above except slightly clayey; medium to coarse grained, some very coarse grains; forams (inc. Nodosaria, Robulus, and Siphogenerina).
- 490-500 Sand- light olive gray; medium to coarse grained; subangular to rounded; moderately well sorted; quartz; 20% glauconite; some shell fragments; forams (inc. Nodosaria, Buccella, Uvigerina, Nonion, and Guttulina); few grains of garnet.
- 500-510 Clay- olive light gray; slightly silty; abundant sand; fine to coarse grained; subangular to rounded; moderately sorted; quartz; glauconite 25% of sand fraction; some shell fragments; forams common (inc. Nodosaria, Uvigerina, Siphogenerina, Globigerina, Buccella, and Dentalina).
- 510-520 As above except forams abundant (inc. Robulus, Guttulina, Globigerina, Buccella, Dentalina, Cibicides, and Bulimina).

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Depth
(feet)

- 520-530 As above plus some granules; forams (inc. Robulus and Buccella).
- 530-540 Sand- olive light gray; moderate clay; slightly silty; medium to coarse grained, 10% granules; subangular to rounded; moderately sorted; quartz; 30% glauconite; some shell fragments; forams common (inc. Robulus, Nodosaria, Dentalina, Globigerina, and Nonion).
- 540-550 Sand- light olive gray; slightly silty; medium to coarse grained, some granules; subangular to rounded; moderately well sorted; 60% glauconite; quartz; some shell fragments; forams common (inc. Nodosaria, Robulus, Buccella, Pyrulina, Siphogenerina, and Uvigerina); few grains of pyrite.
- 550-560 As above except olive light gray; forams (inc. Robulus, Nodosaria, Pyrulina, and Buccella).
- 560-570 As above except slightly clayey; 5% granules; no Pyrulina; no pyrite.
- 570-580 As above except 50% glauconite; 10% granules; no Buccella.
- 580-590 Sand- olive light gray; moderate clay; moderate silt; medium to coarse grained, 10% granules; subangular to rounded; moderately sorted; quartz; 40% glauconite; some shell fragments; forams (inc. Nodosaria, Siphogenerina, Buccella, Robulus, and Nonion).
- 590-600 As above plus some fine grains; 2% granules; forams (inc. Robulus, Nodosaria, and Globulina).
- 600-610 As above except 7% granules; forams (inc. Robulus, Nodosaria, Buccella, and Uvigerina).
- 610-620 As above except forams scarce (inc. Nodosaria); few grains of garnet.
- 620-630 Sand- light olive gray; slightly clayey; slightly silty; medium grained to granular; subangular to rounded; poorly sorted; quartz; 30% glauconite; few shell fragments; garnet; forams scarce (inc. Nodosaria and Globulina).
- 630-640 Sand- light olive gray; moderate clay; medium to coarse grained, 2% granules; subangular to rounded; moderately well sorted; quartz; 25% glauconite; forams (inc. Nodosaria, Robulus, and Cibicides?).

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Depth
(feet)

- 640-650 As above plus few sandy limestone fragments; no Cibicides?.
- 650-660 Sand- light olive gray; slightly clayey; medium to very coarse grained, 10% granules; subangular to subrounded; poorly sorted; quartz; 7% glauconite; some shell fragments; feldspar; few sandy limestone fragments; foram.
- 660-670 As above plus some fine grains, some granules; forams rare (inc. Nodosaria); no limestone.
- 670-680 As above except few shell fragments; few flakes of muscovite.
- 680-690 As above except medium to coarse grained, some fine grains, some granules, few pebbles; some shell fragments; no Nodosaria.
- 690-700 As above except few shell fragments.
- 700-710 Sand- light olive gray; abundant clay; slightly silty; medium to coarse grained, some fine grains, some granules; subangular to subrounded; moderately sorted; quartz; 10% glauconite; feldspar; some shell fragments; few grains of muscovite.
- 710-720 Sand- light olive gray; moderate silt; medium grained to granular; subangular to subrounded; moderately sorted; quartz; 10% glauconite; feldspar; 3% limestone and shell fragments; few flakes of muscovite; forams rare (inc. Nodosaria).
- 720-730 As above except no Nodosaria.
- 730-740 As above plus moderate clay; 7% glauconite; some shell fragments.
- 740-750 As above except some sandy limestone and shell fragments; forams rare (inc. Nodosaria).
- 750-760 Sand- light olive gray; moderate clay; medium to coarse grained, 5% granules; subangular to subrounded; moderately sorted; quartz; 5% glauconite; feldspar; some shell fragments; few flakes of muscovite; garnet.
- 760-770 As above except medium to very coarse grained, 10% granules; no garnet.
- 770-780 Sand- light olive gray; slightly clayey; medium to coarse grained, 5% granules; subangular to subrounded; moderately well sorted; quartz; 10% glauconite; 3% shell fragments; feldspar.

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Depth
(feet)

- 780-790 As above except 10% granules; 7% shell fragments; few sandy limestone fragments.
- 790-800 As above except 5% granules; 2% shell fragments.
- 800-810 Sand- off-white; medium to coarse grained; subangular to subrounded; moderately well sorted; quartz; feldspar; some glauconite; few flakes of muscovite; garnet.
- 810-820 As above plus some fine grains, some granules; moderately sorted.
- 820-830 Sand- off-white; medium to coarse grained, some fine grains; subangular to subrounded; moderately well sorted; quartz; feldspar; 2% glauconite; few grains of garnet; muscovite.
- 830-840 Sand- off-white; medium to coarse grained, some granules, few pebbles; subangular to subrounded; moderately well sorted; quartz; feldspar; 5% glauconite; few shell fragments; muscovite; garnet; forams rare (inc. Globigerina).
- 840-850 As above plus some fine grains; no Globigerina.
- 850-860 Sand- yellowish-gray; medium to very coarse grained, some granules; subangular to subrounded; moderately sorted; quartz; feldspar; 2% glauconite; few grains of garnet; few shell fragments.
- 860-870 As above except light olive gray; slightly clayey; moderate silt; some shell fragments.
- 870-880 Sand- light olive gray; moderate clay- light olive gray, light brown; slightly silty; medium to coarse grained, some granules; subangular to subrounded; moderately well sorted; quartz; feldspar; 7% glauconite; some shell fragments; few flakes of muscovite.
- 880-890 Sand- light olive gray; slightly clayey; medium to coarse grained, some fine grains, few granules; subangular to subrounded; moderately sorted; quartz; 7% glauconite; 3% shell fragments; some feldspar; few sandy limestone fragments; garnet; forams scarce (inc. Nodosaria and Siphogenerina).

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Depth
(feet)

890-900 Sand- light olive gray; moderate clay; medium to coarse grained,
10% granules; subangular to subrounded; moderately sorted;
quartz; 10% glauconite; 2% shell fragments; some feldspar; few
flakes of muscovite.

Logged by: Michael T. Currie
July 18, 1979

OWNER: Warwick Plumbing and Heating Corp.
(Newport News City Hall)
DRILLER: Sydnor Hydrodynamics, Inc.
COUNTY: Warwick (Newport News)

VDMR # 3095
WWCR # 68
TOTAL DEPTH: 900'
ELEV: 20'

GEOLOGIC SUMMARY

<u>Depth (feet)</u>	<u>Rock Unit</u>	<u>Age</u>
0-20	Columbia Group	Pleistocene
20-310	Yorktown and St. Marys formations	Late Miocene
310-425	Calvert Formation	Middle Miocene
425-690	Mattaponi Formation	Paleocene - Late Cretaceous
690-800	Tuscaloosa Formation (?)	Late Cretaceous (?)
800-900	Patuxent Formation	Early Cretaceous

Virginia Division of Mineral Resources
Robert H. Teifke - Geologist
April 16, 1971

*Review 11/5-7/85
for evidence of
facies change
to suppression of Ft.
Monroe High*